STR-W55

SERVICE MANUAL

AEP Model
UK Model

STR-W55 is RECEIVER section in MHC-W55.

SPECIFICATIONS

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range 87.5 – 108.0 MHz (50 kHz step)
Aerial FM lead aerial
Aerial terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
German, Italian model :
AM: 531 – 1,602 kHz (with the interval set at 9 kHz)
EXCEPT German, Italian model :
MW: 531 – 1,602 kHz (with the interval set at 9 kHz)
LW: 153 – 279 kHz (with the interval set at 3 kHz)
Aerial AM loop aerial, External aerial terminals
Intermediate frequency 450 kHz

Amplifier section

DIN power output
50 + 50 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output
60 + 60 watts (6 ohms at 1kHz, 10% THD)
Music power output
210 watts (6 ohms at 1kHz, 10% THD)
Inputs
MD IN (phono jacks): voltage 450 mV, impedance 47 kilohms
MIX MIC (phone jacks): sensitivity 1 mV, impedance 10 kilohms
Outputs
MD OUT (phono jacks): voltage 250 mV impedance 1 kilohms
PHONES (stereo phone jack): accepts headphones of 8 ohms or more.
FRONT SPEAKER: accepts impedance of 6 to 16 ohms.
SURROUND SPEAKER: accepts impedance of 16 ohms.

— Continued on page 2 —

MICROFILM

FM STEREO/FM-AM RECEIVER

SONY®

Supplied accessories
AM loop aerial (1)
Remote RM-SSV35 (1)
Sony SUM-3 (NS) batteries (2)
FM lead aerial (1)
Flat cords (2)
Speaker cords (2)

General
Power requirements
220-230V AC, 50/60Hz (EXCEPT UK)
220-240V AC, 50/60Hz (UK)
Power consumption
240 watts
Dimensions
Amplifier/Tuner section:
Approx. 280 x 295 x 345 mm
(11 x 8 1/8 x 13 5/8 inches)
(w/h/d) incl. projecting parts and controls
Mass
Amplifier/Tuner section:
Approx. 5.5 kg (12 lbs. 2 oz.)
Design and specifications are subject to change without notice.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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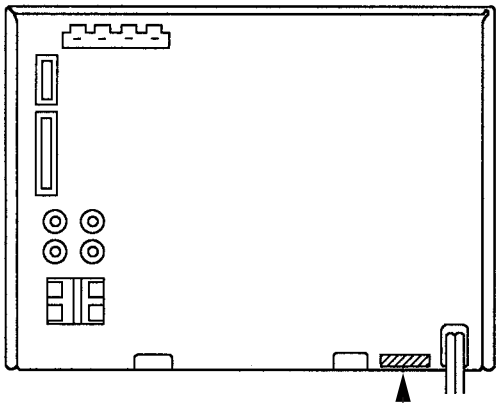
MODEL INDENTIFICATION
– BACK PANEL –



Parts No.	Model
4-978-033-6☐	UK
4-978-033-2☐	AEP, German, Italian, AED

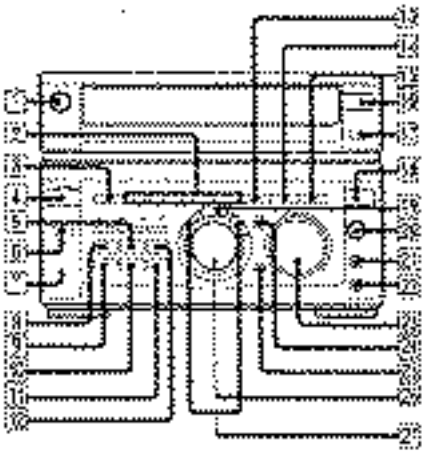
● Abbreviation
AED : Norway, Sweden, Finland, Denmark

SECTION 1
GENERAL

This section is extracted from instruction manual.

Front Panel

Amplifier/Tuner section



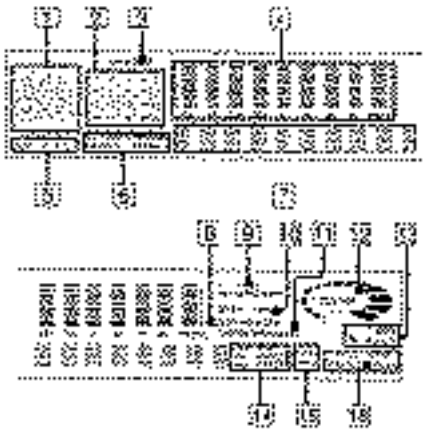
1 SYSTEM POWER button
2 MENU 1-4 buttons
3 EFFECT ON/OFF button
4 TIMER button
5 PTY button
6 SLEEP button
7 KARAOKE/PON/MPX button
8 TUNER MEMORY button
9 CLOCK SET button
10 TIMER SET button
11 TIMER SELECT button
12 TUNING MODE button
13 P.POS button
14 MEMORY button
15 SURROUND button
16 TUNER/BAND button
17 DISPLAY button
18 FUNCTION button
19 ENTER/NEXT button
20 MIC LEVEL control
21 MIX MIC jack
22 PHONES jack
23 VOLUME control
24 DBFB button
25 GROOVE button
26 JOG dial
27 FREQUENCY +/– buttons

Rear panel

Amplifier/Tuner section

1 ANTENNA terminals
2 SYSTEM CONTROL 2 terminal
3 SYSTEM CONTROL 1 terminal
4 MD IN/OUT jacks
5 FRONT SPEAKER connectors
6 SURROUND SPEAKER connectors

Display Window



1 Disc tray indicator
2 Music calendar
3 CD/TUNER indicator
4 Graphic Equalizer indicator
5 CLIP indicators
6 CD playback indicators
7 Multi-display
8 DOLBY NR indicator
9 Timer indicators
10 Direction mode indicators
11 Tuning indicators
12 VOLUME indicators
13 Karaoke/PON/MPX indicators
14 Tuner indicators
15 SYNC REC indicator
16 DBFB/SUR indicators

SECTION 2
TEST MODE

DISPLAY / KEY TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 1 button with the following 4 seconds to set the Test Mode.

1. The message “W1 J (destination) ” appears on the screen and a 32 cycle square wave of the subcrystal oscillator is output from Pin 24 (AUB. OUT).
2. Press any key to rotate JOG and all FL indicators light up.
   When you rotate JOG at this point, the display changes as follows.
   ← all FL indicators on ←→ FL pattern 1 ←→ FL pattern 2 →
   The changes and all LED indicators light up.
3. Again press any key to set the key count check. The following display appears.
   0 0 0
   The numbers in order from left to right show ; the number of keys pressed, the JOG count (1 click per 4 counts), and the VOL count. (1 cycle is a count of 96.)
4. Press the Power button to reset to the factory settings.

AMP TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 2 button with the following 4 seconds to set the Test Mode.

1. The message “AMP TEST” appears on the screen. Press the MENU button to call up the Equalizer Curve for the Amp Test. However when the function is set to the tuner, use the MENU button to call up each tuner preset from 1 through 5.
2. Press the Power button to reset to the factory settings.

MICROCOMPUTER COLD START

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 3 button with the following 4 seconds to reset the microcomputer to the factory settings.

SUBCRYSTAL TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 4 button with the following 4 seconds.
The message “XTAL TEST ” appears on the screen and a 32 cycle square wave of the subcrystal oscillator is output from Pin 24 (AUB.OUT).
In addition, a square wave of the same frequency as the subcrystal oscillator, is output from 4PIN (POWER. ON/OFF).
Press the Power button to reset to the factory settings.

SECTION 3
ELECTRICAL ADJUSTMENTS

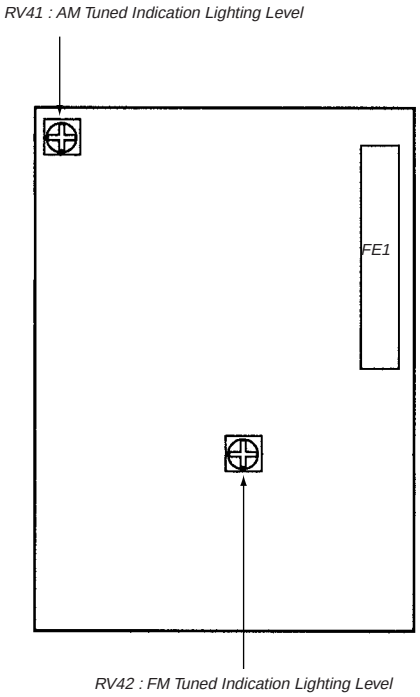
Precautions in Repairing

Note. 1 : The adjustment should be performed in the publication. (AM ⟶FM)

Note. 2 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

Adjustment Location :

[TCB BOARD] – Component side –

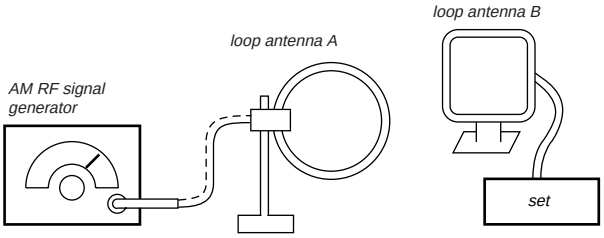


AM SECTION

AM Tuned Indication Lighting Level

Setting :

Band :AM (MW)



Carrier frequency : 999kHz

Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 55dBμ/m (0.6mV/m).
2. Tune the set to 999kHz .
3. Adjust RV41 so that the TUNED indicator goes on.

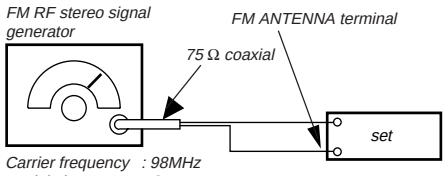
FM SECTION

FM Tuned Indication Lighting Level

Note : Always make the tuning level adjustment first. (Since it affects the FM tuning level.)

Setting :

Band : FM



Carrier frequency : 98MHz
Modulation : OFF
Output level :0.018mV (25dBμ)

Procedure :

1. Tune the set to 98MHz.
2. Adjust RV42 so that the TUNED indicator goes on.

Adjustment Location : TCB board

SECTION 4
EXPLANATION OF IC TERMINALS

IC501 1 ASD0204GF-011-3BA (SYSTEM CONTOROL)

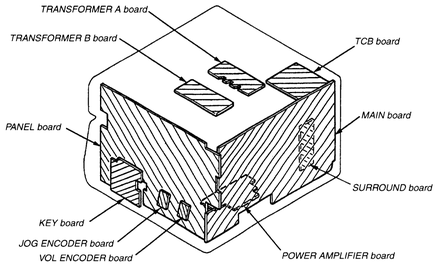
Pin No.	Pin name	I/O	Description
1	V_{DD}	–	Power supply.
2	CLK OUT	O	Direct output for communications with HCD-W55.
3	RDY IN	I/O	Direct input / output for communications with HCD-W55.
4	POWER ON / OFF	O	L : Relay ON
5	MUTE	O	Mute output to transistor. L : Mute ON
6,7	–	–	Not used.
8	427LAT	O	Latch output to IC105 (M62427FP).
9	LED LAT	O	Latch output to IC504 (M66313FP).
10	RESET	I	Reset terminal.
11	X2	–	Oscillator connection terminal. (5MHz)
12	X1	–	Oscillator connection terminal. (5MHz)
13	IC	–	Ground connection.
14	XT2	–	Oscillator connection terminal. (32MHz)
15	XT1	–	Oscillator connection terminal. (32MHz)
16	V_{DD}	–	Power supply.
17	BACK UP	I	AC Power supply OFF.
18	COM CLK	O	Transfer clock output serial data.
19	COM DATA	O	Serial data output.
20	ST DATA IN	I	Serial data input from IC 1.
21	ST CE	O	Chip enable output to IC 1.
22	STEREO	I	Stereo signal input.
23	TUNED	I	Tuned signal input.
24	AUB OUT	O	Audio bus output.
25	AV_{SS}	–	Ground.
26	–	–	Not used.
27	SUFFIX	I	Input for model select.
28	SPE	I	Spectrum analyzer signal input.
29	SPE	I	Spectrum analyzer signal input.
30	SPE	I	Spectrum analyzer signal input.
31	SPE	I	Spectrum analyzer signal input.
32	KYE 1	I	Key data input (A/D converter).
33	KYE 2	I	Key data input (A/D converter).
34	AV_{DD}	–	Power supply for anlog.
35	AV REF	–	Reference voltage for A/D converter.
36	VOL IN A	I	Volume encoder input.
37	JOG IN A	I	JOG dial encoder input.
38	RDS CLK	I	Not uset.
39	AUB IN	I	Audio bus output.
40	V_{SS}	–	Ground.

Pin No.	Pin name	I/O	Description
41	RDS DATA	I	Not uset.
42	D 3	I/O	System control data signal input / output.
43	D 2	I/O	System control data signal input / output.
44	D 1	I/O	System control data signal input / output.
45	D 0	I/O	System control data signal input / output.
46	V_{DD}	–	Power supply +5V.
47	SIRCS IN	I	SIRCS signal input.
48	VOL IN B	I	Volume encoder input.
49	JOG IN B	I	JOG dial encoder input.
50	ST FM	O	BAND select output.
51	ST MUTE	O	
52	EMG OUT	O	Urgent signal standby output. "H" : standby
53	EMG IN	I	Urgent signal start input. "H" ⟶ "L" : start
57 – 78	P 32 – P 8	O	Segment output to FL501.
79	VG	–	Power supply for fluorescent indicator tube.
80 – 86	P 7 – P 1	O	Segment output to FL501.
87 – 100	14 G – 1 G	O	Grid output for FL501.

	FM Receiving	AM Receiving	MUTE
⑤⓪ pin	H	L	H
⑤① pin	L	L	H

SECTION 5
DIAGRAMS

• CIRCUIT BOARDS LOCATION

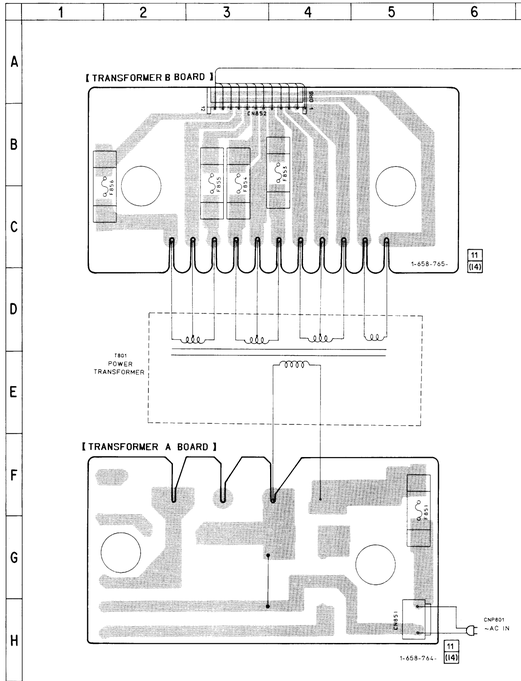


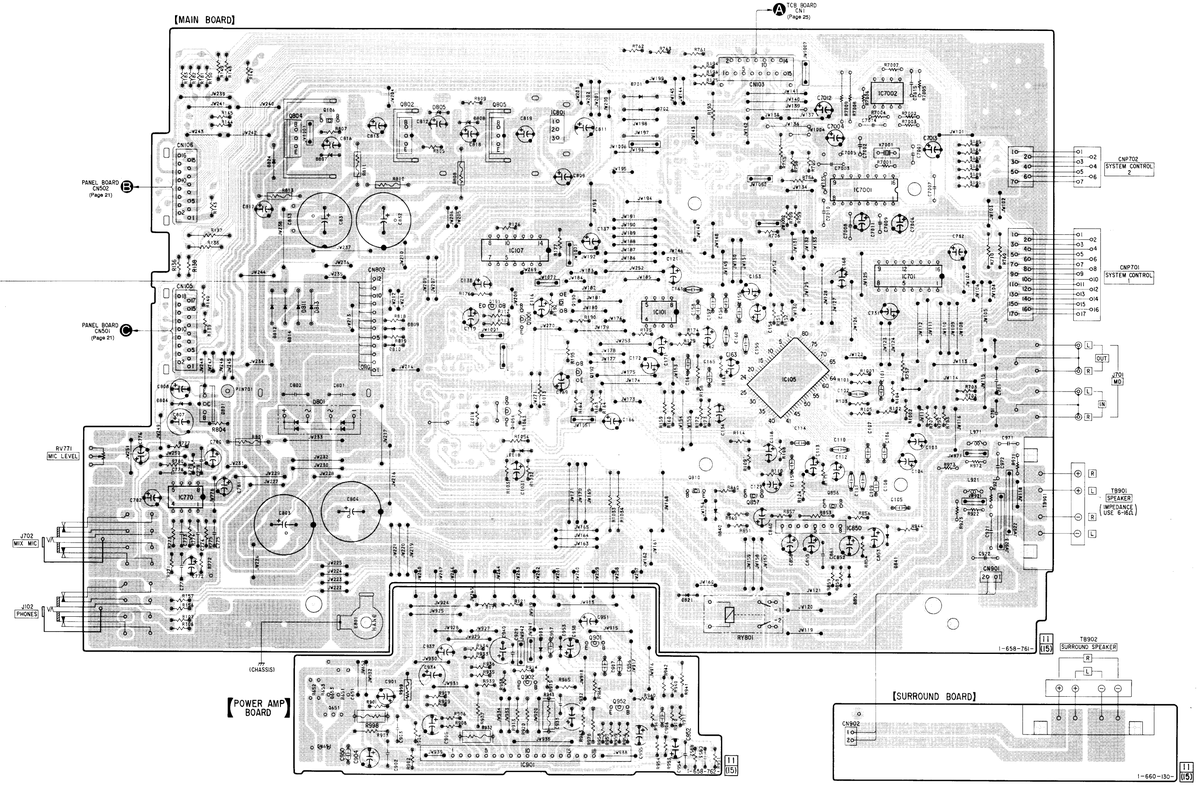
• SEMICONDUCTOR LOCATION

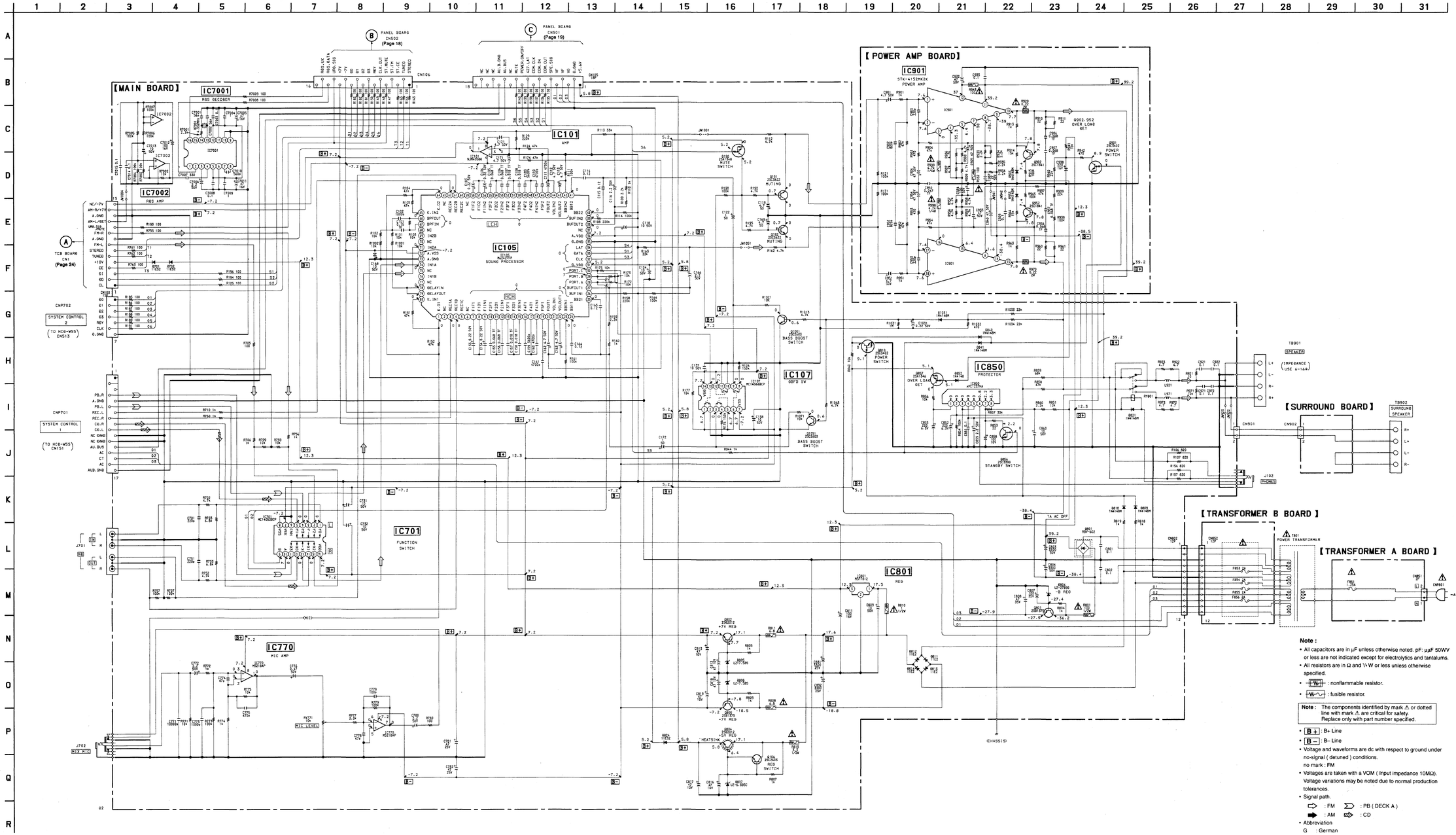
Ref. No.	Location
D701	B-15
D702	B-15
D801	F-11
D804	F-9
D805	B-13
D807	C-11
D808	C-13
D809	E-12
D810	E-12
D811	E-11
D812	E-11
D813	E-11
D814	E-11
D821	H-16
D824	C-11
D840	G-16
D841	H-18
D852	H-18
D903	I-14
D953	I-14
D1031	G-14
IC101	E-15
IC105	F-17
IC107	D-14
IC701	D-18
IC770	G-10
IC801	C-14
IC850	G-17
IC901	J-14
IC7001	C-18
IC7002	B-18
Q106	C-11
Q190	E-14
Q191	E-13
Q192	F-14
Q801	F-10
Q802	C-12
Q804	C-11
Q805	C-15
Q810	G-16
Q856	G-17
Q857	G-16
Q901	I-15
Q902	I-14
Q952	J-15
Q1001	E-14
Q1051	F-13

Note:

- ○— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- Abbreviation
  G : German
  IT : Italian
  AED : Norway, Sweden, Finland, Denmark

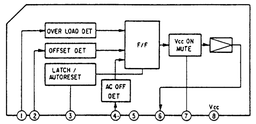

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
A B C D E F G H I J
【TRANSFORMER B BOARD】
CN852
1-658-765-
11 (I14)
T801 POWER TRANSFORMER
【TRANSFORMER A BOARD】
CN851
CN801 ~AC IN
1-658-764-
11 (I14)




【MAIN BOARD】
【POWER AMP BOARD】
【SURROUND BOARD】
【TRANSFORMER B BOARD】
【TRANSFORMER A BOARD】
IC7001
RDS DECODER
IC7002
RDS AMP
IC101
AMP
IC105
MULTI AMP SOUND PROCESSOR
IC107
6BPD SW
IC701
FUNCTION SWITCH
IC770
MIC AMP
IC801
REG
IC850
PROTECTOR
IC901
STK-4152MK2K
POWER AMP
PANEL BOARD CN502 (Page 18)
PANEL BOARD CN501 (Page 19)
TCB BOARD CN1 (Page 24)
CNP702 SYSTEM CONTROL 2 (TO HCB-W55 CN513)
CNP701 SYSTEM CONTROL 1 (TO HCB-W55 CN151)
CN104
CN105
CN106
CN107
CN108
CN109
CN110
CN111
CN112
CN113
CN114
CN115
CN116
CN117
CN118
CN119
CN120
CN121
CN122
CN123
CN124
CN125
CN126
CN127
CN128
CN129
CN130
CN131
CN132
CN133
CN134
CN135
CN136
CN137
CN138
CN139
CN140
CN141
CN142
CN143

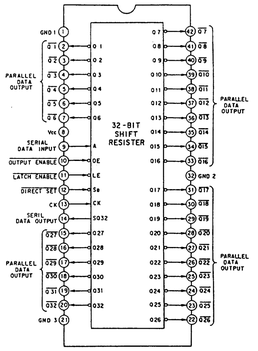
● IC BLOCK DIAGRAMS –MAIN SECTION–

IC850 µPC1237HA



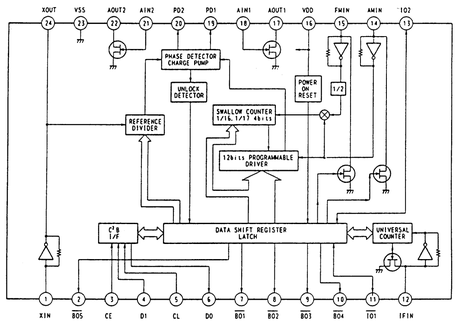
● IC BLOCK DIAGRAMS –PANEL SECTION–

IC504 M66313FP - 200C

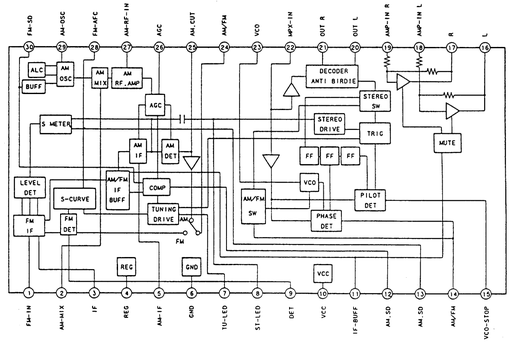


● IC BLOCK DIAGRAMS –TCB SECTION–

IC21 LC72130



IC41 LA1835



【JOG ENCODER BOARD】 【VOL ENCODER BOARD】

【PANEL BOARD】

FL501 FLUORESCENT LAMP BOTTOM VIEW

IC501 M38049M4-011 SYSTEM CONTROL

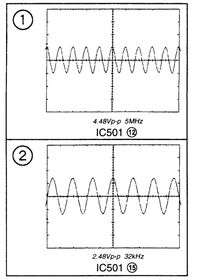
IC502 µPD1078 SIRCS

IC503 RESET

IC504 TC9163P LED DRIVER

【KEY BOARD】

● WAVEFORMS – PANEL SECTION –



Note :

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  + : Can not measured
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
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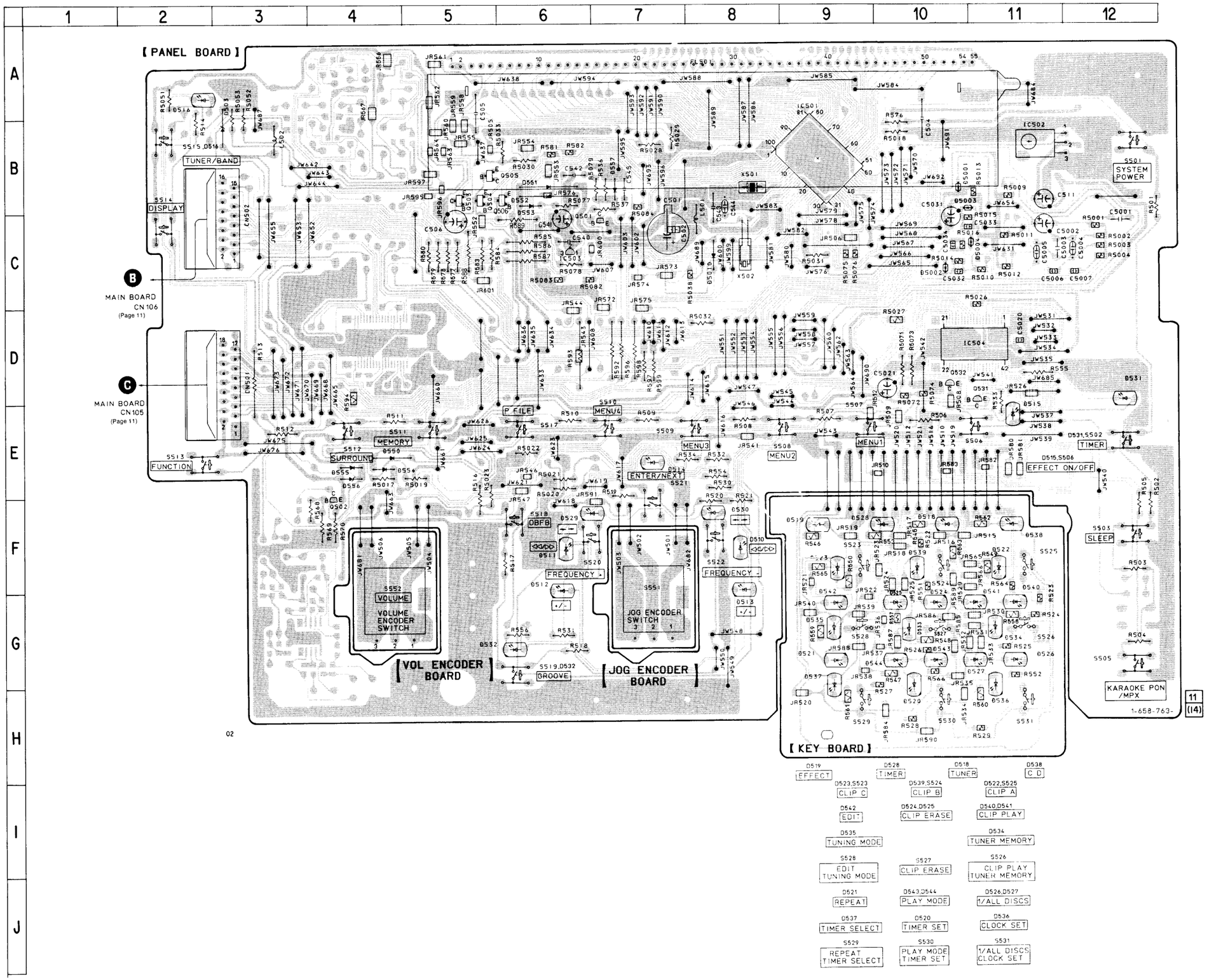
5-4. PRINTED WIRING BOARDS –PANEL SECTION–



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D503	B-3	D550	E-4
D510	F-8	D551	B-6
D511	F-6	D552	C-6
D512	F-6	D553	C-6
D513	G-8	D554	E-4
D514	E-7	D555	E-4
D515	E-11	D556	E-4
D516	A-2	D557	B-7
D518	F-10	D5001	B-10
D519	F-9	D5002	C-10
D520	H-10	D5003	B-10
D521	G-9	D5004	C-11
D522	F-11	D5010	C-8
D523	F-9		
D524	G-10	IC501	B-9
D525	G-10	IC502	B-11
D526	G-11	IC503	C-6
D527	G-11	IC504	D-11
D528	F-10		
D529	F-6	Q501	C-7
		Q502	F-4
D530	F-8	Q503	B-5
D531	D-12	Q504	B-5
D532	G-6	Q505	B-5
D533	G-10		
D534	G-11	Q506	C-6
		Q531	D-11
D535	G-9	Q532	D-10
D536	G-11		
D537	G-9		
D538	F-11		
D539	F-10		
D540	G-11		
D541	G-11		
D542	G-9		
D543	G-10		
D544	G-10		

Note:

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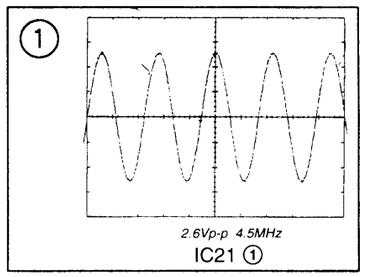
5-5. SCHEMATIC DIAGRAM –TCB SECTION–

● Refer to page 17 for IC Block Diagrams.

● WAVEFORM – TCB SECTION –



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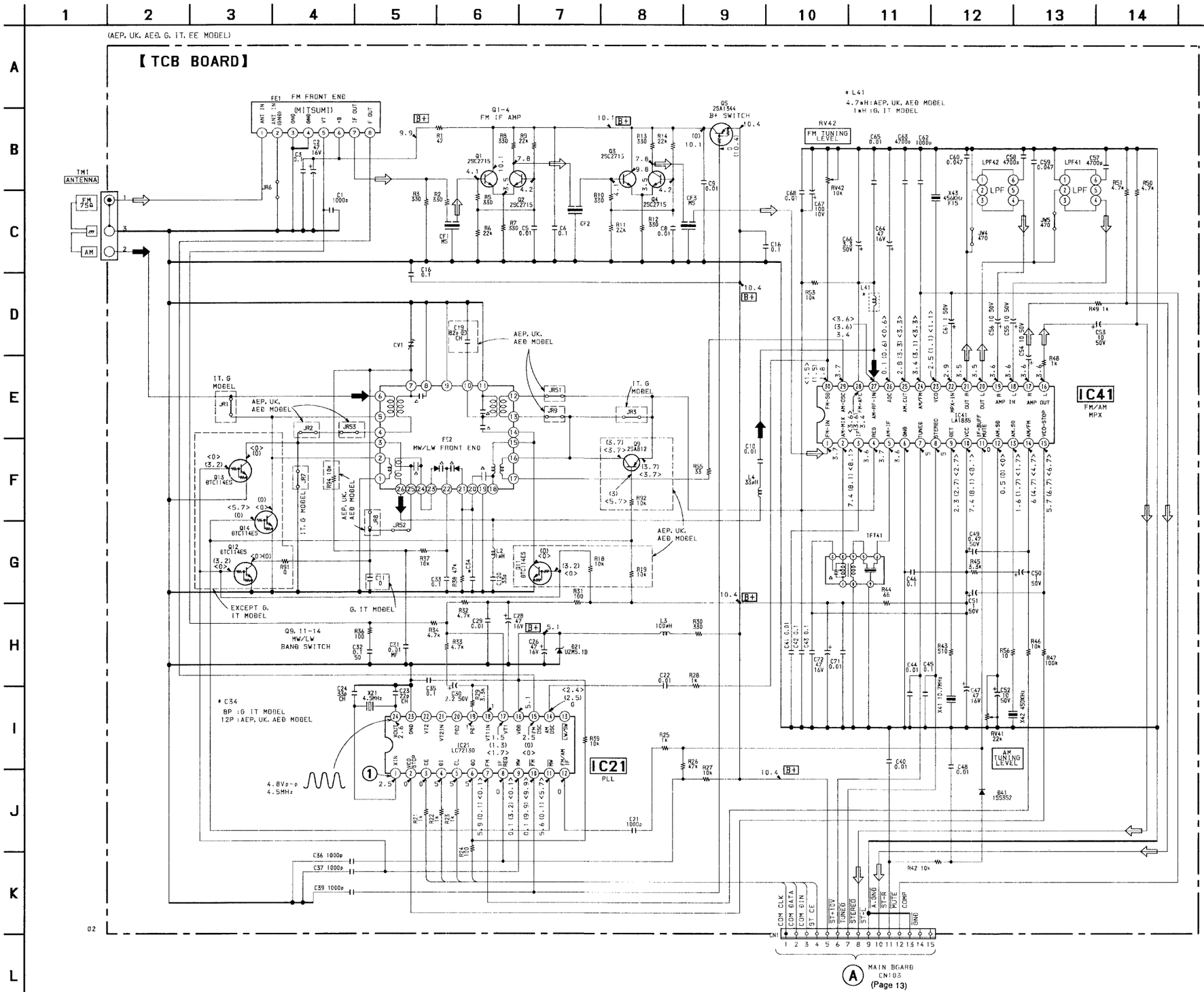
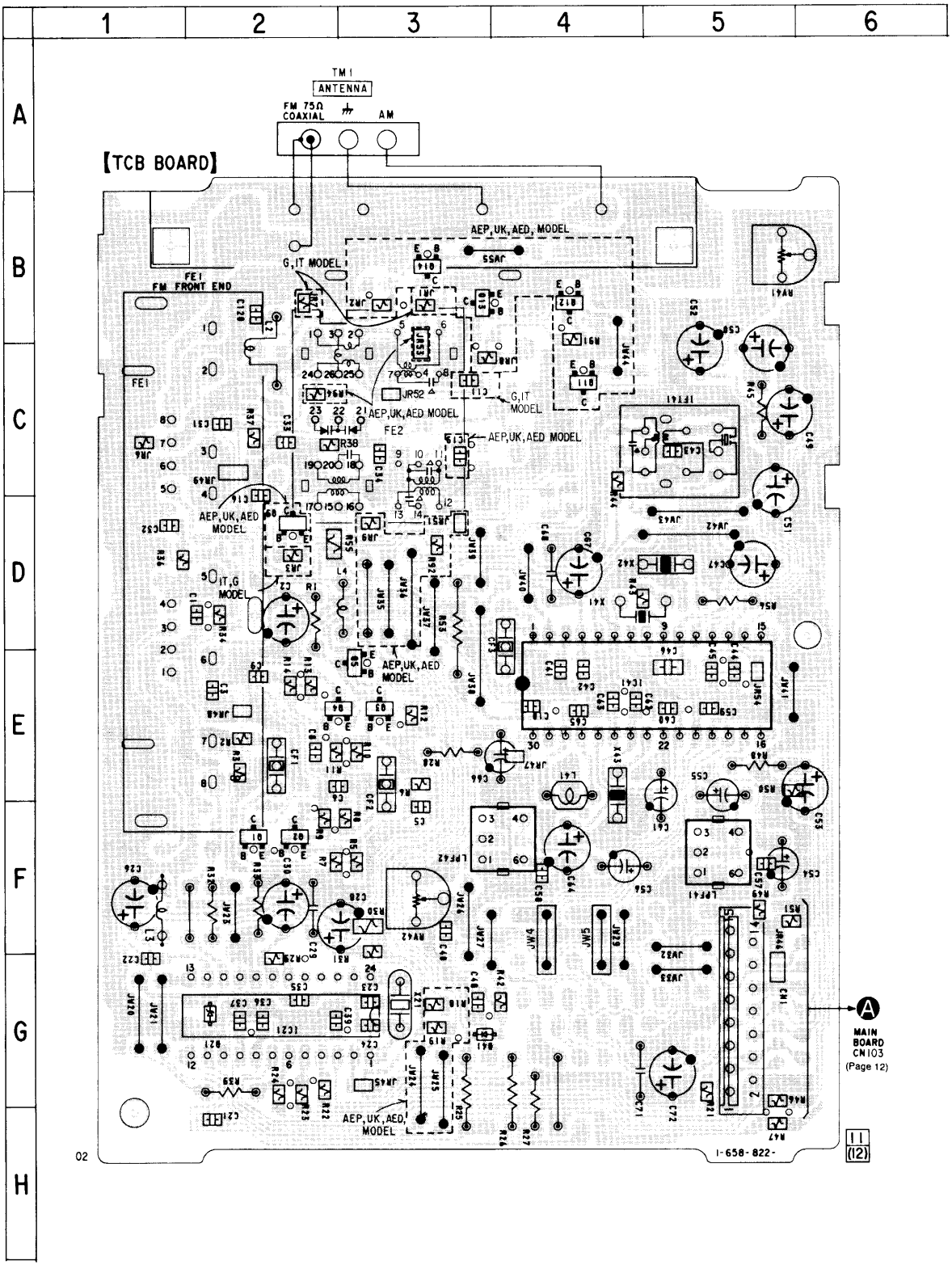
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ➡ : AM
- Abbreviation
  G : German
  IT : Italian
  AED : Norway, Sweden, Finland, Denmark



5-6. PRINTED WIRING BOARDS –TCB SECTION–



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D21	G-2	Q1	F-2	Q9	D-2
D41	G-3	Q2	F-2	Q11	C-4
		Q3	E-3	Q12	B-4
		Q4	E-2	Q13	B-3
IC21	G-2	Q5	E-3	Q14	B-3
IC41	E-4				

Note:

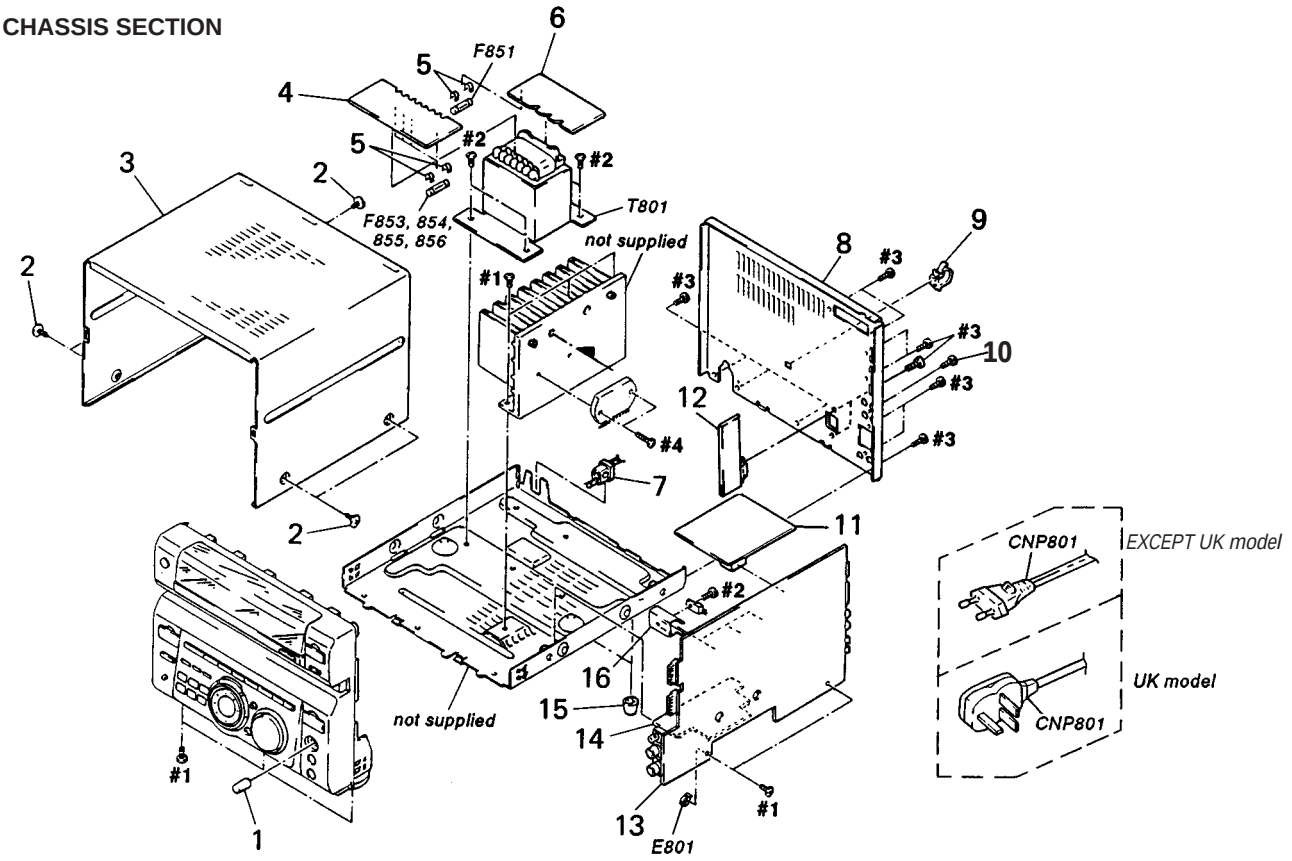
- ○— : parts extracted from the component side.
- ▒▒ : Pattern on the side which is seen.
- Abbreviation
  G : German
  IT : Italian
  AED : Norway, Sweden, Finland, Denmark

SECTION 6
EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  AED : Norway, Sweden, Finland, Denmark

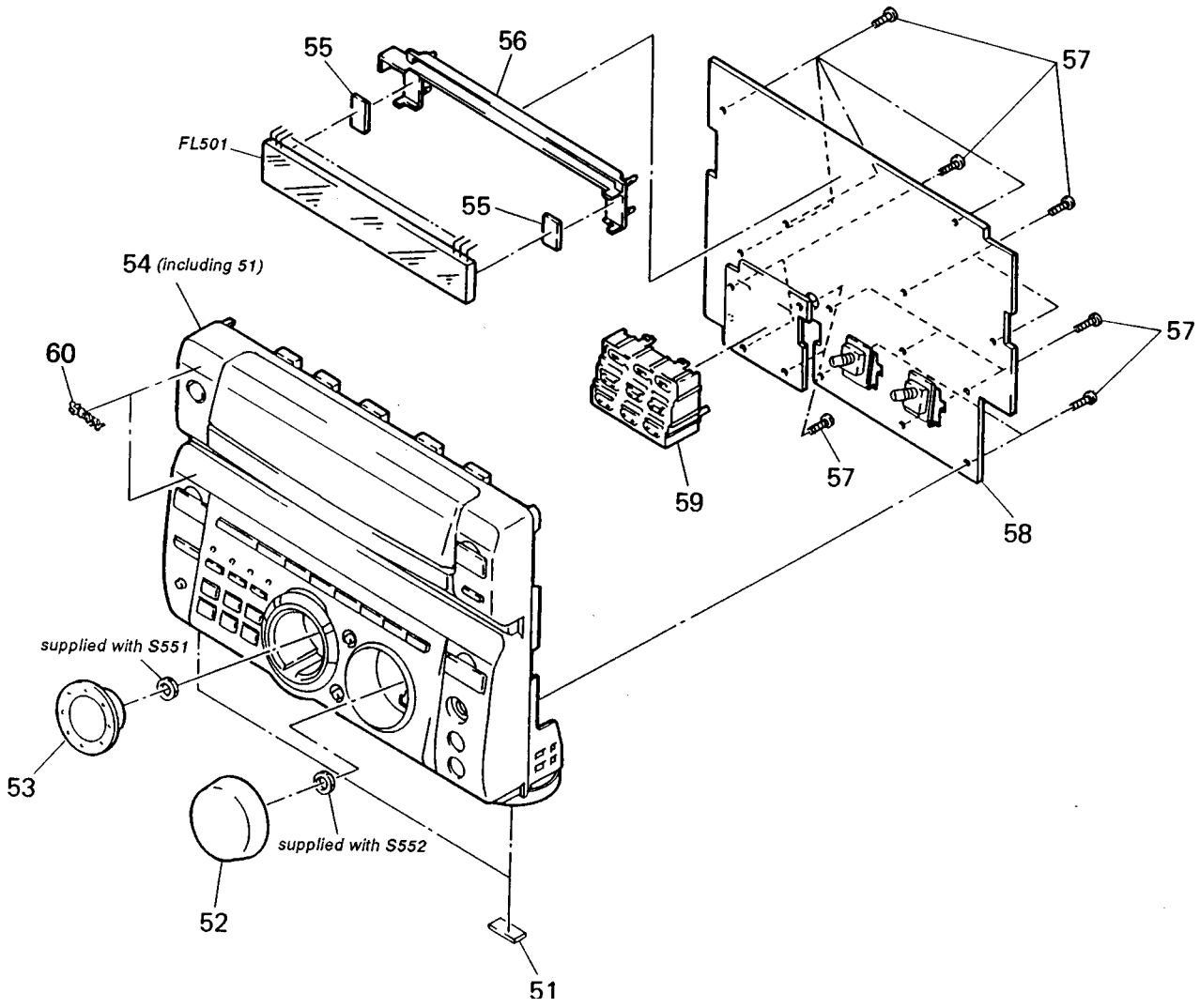
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	4-978-037-01	KNOB (M) (MIC LEVEL)	
2	3-704-366-01	SCREW (CASE) (M3X8)	
3	4-979-348-51	CASE	
* 4	1-658-765-11	TRANSFORMER B BOARD	
5	1-533-293-11	FUSE HOLDER	
* 6	1-658-764-11	TRANSFORMER A BOARD	
* 7	3-703-244-00	BUSHING (2104), CORD	
* 8	4-978-033-21	PLATE, JACK (EXCEPT UK)	
* 8	4-978-033-61	PLATE, JACK (UK)	
* 9	4-949-235-01	HOOK	
10	4-909-982-11	SCREW, TAPPIN	
* 11	A-4303-529-A	TCB BOARD, COMPLETE (AEP,AED,UK)	
* 11	A-4303-530-A	TCB BOARD, COMPLETE (German,Italian)	
* 12	1-660-130-11	SURROUND BOARD	
* 13	A-4389-333-A	MAIN BOARD, COMPLETE (EXCEPT UK)	
* 13	A-4389-340-A	MAIN BOARD, COMPLETE (UK)	
* 14	A-4389-334-A	POWER AMPLIFIER BOARD, COMPLETE (EXCEPT UK)	
* 14	A-4389-341-A	POWER AMPLIFIER BOARD, COMPLETE (UK)	
15	4-970-381-01	FOOT (REAR)	
* 16	4-880-403-11	HEAT SINK	
⚠ CNP801	1-574-805-11	CORD, POWER (EXCEPT UK)	
⚠ CNP801	1-696-570-21	CORD, POWER (UK)	
* E801	4-942-204-01	PLATE, GROUND	
⚠ F851	1-532-285-00	FUSE,TIME LAG (1.25A / 250V)	
⚠ F853	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F854	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F855	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F856	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ T801	1-429-258-11	TRANSFORMER, POWER (EXCEPT UK)	
⚠ T801	1-429-643-11	TRANSFORMER, POWER (UK)	

6-2. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
51	4-930-336-21	FOOT (FELT)	
52	4-978-034-01	KNOB (V) (VOLUME)	
53	4-978-035-02	KNOB (J) (JOG)	
54	X-4946-749-1	PANEL ASSY, FRONT	
* 55	4-932-810-01	CUSHION (FL)	
* 56	4-971-014-01	HOLDER, FL TUBE	
57	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
* 58	A-4389-330-A	PANEL BOARD, COMPLETE (AEP,AED)	
* 58	A-4389-335-A	PANEL BOARD, COMPLETE (German)	
58	A-4389-336-A	PANEL BOARD, COMPLETE (Italian)	
* 58	A-4389-337-A	PANEL BOARD, COMPLETE (UK)	
* 59	4-978-036-04	HOUSE, LAMP	
60	4-962-708-01	EMBLEM (4-A), SONY	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

SECTION 7
ELECTRICAL PARTS LIST

MAIN

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  AED : Norway, Sweden, Finland, Denmark

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4389-333-A	MAIN BOARD, COMPLETE (EXCEPT UK)			
*	A-4389-340-A	MAIN BOARD, COMPLETE (UK)			
		**********			
*	4-880-403-11	HEAT SINK			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C101	1-136-167-00	FILM	0.15uF	5%	50V
C102	1-102-074-00	CERAMIC	0.001uF	10%	50V
C103	1-124-464-11	ELECT	0.22uF	20%	50V
C104	1-124-464-11	ELECT	0.22uF	20%	50V
C105	1-136-163-00	FILM	0.068uF	5%	50V
C106	1-136-163-00	FILM	0.068uF	5%	50V
C107	1-136-156-00	FILM	0.018uF	5%	50V
C108	1-136-156-00	FILM	0.018uF	5%	50V
C109	1-102-126-00	CERAMIC	0.0056uF	10%	50V
C110	1-101-003-00	CERAMIC	0.0047uF	50V	
C111	1-101-003-00	CERAMIC	0.0047uF	50V	
C112	1-126-963-11	ELECT	4.7uF	20%	50V
C113	1-126-963-11	ELECT	4.7uF	20%	50V
C114	1-136-166-00	FILM	0.12uF	5%	50V
C115	1-136-166-00	FILM	0.12uF	5%	50V
C116	1-126-961-11	ELECT	2.2uF	20%	50V
C118	1-124-907-11	ELECT	10uF	20%	50V
C119	1-126-963-11	ELECT	4.7uF	20%	50V
C121	1-126-963-11	ELECT	4.7uF	20%	50V
C122	1-124-903-11	ELECT	1uF	20%	50V
C134	1-124-907-11	ELECT	10uF	20%	50V
C137	1-124-907-11	ELECT	10uF	20%	50V
C138	1-124-907-11	ELECT	10uF	20%	50V
C153	1-124-464-11	ELECT	0.22uF	20%	50V
C154	1-124-464-11	ELECT	0.22uF	20%	50V
C155	1-136-163-00	FILM	0.068uF	5%	50V
C156	1-136-163-00	FILM	0.068uF	5%	50V
C157	1-136-156-00	FILM	0.018uF	5%	50V
C158	1-136-156-00	FILM	0.018uF	5%	50V
C159	1-102-126-00	CERAMIC	0.0056uF	10%	50V
C160	1-101-003-00	CERAMIC	0.0047uF	50V	
C161	1-101-003-00	CERAMIC	0.0047uF	50V	
C162	1-126-963-11	ELECT	4.7uF	20%	50V
C163	1-126-963-11	ELECT	4.7uF	20%	50V
C164	1-136-166-00	FILM	0.12uF	5%	50V
C165	1-136-166-00	FILM	0.12uF	5%	50V
C166	1-126-961-11	ELECT	2.2uF	20%	50V
C168	1-124-907-11	ELECT	10uF	20%	50V
C169	1-126-963-11	ELECT	4.7uF	20%	50V
C171	1-126-963-11	ELECT	4.7uF	20%	50V
C172	1-124-903-11	ELECT	1uF	20%	50V
C701	1-162-286-31	CERAMIC	220PF	10%	50V
C731	1-124-907-11	ELECT	10uF	20%	50V
C732	1-124-907-11	ELECT	10uF	20%	50V
C751	1-162-286-31	CERAMIC	220PF	10%	50V
C771	1-162-306-11	CERAMIC	0.01uF	30%	16V
C772	1-126-961-11	ELECT	2.2uF	20%	50V
C773	1-162-294-31	CERAMIC	0.001uF	10%	50V
C774	1-162-215-31	CERAMIC	47PF	5%	50V
C775	1-162-290-31	CERAMIC	470PF	10%	50V
C776	1-124-902-00	ELECT	0.47uF	20%	50V
C778	1-162-215-31	CERAMIC	47PF	5%	50V
C779	1-162-282-31	CERAMIC	100PF	10%	50V
C780	1-126-961-11	ELECT	2.2uF	20%	50V
C781	1-124-477-11	ELECT	47uF	20%	25V
C782	1-124-477-11	ELECT	47uF	20%	25V
C801	1-164-159-11	CERAMIC	0.1uF		50V
C802	1-164-159-11	CERAMIC	0.1uF		50V
C803	1-126-974-11	ELECT	3300uF	20%	50V
C804	1-126-974-11	ELECT	3300uF	20%	50V
C807	1-126-968-11	ELECT	100uF	20%	35V
C808	1-126-967-11	ELECT	47uF	20%	35V
C809	1-124-907-11	ELECT	10uF	20%	50V
C811	1-104-665-11	ELECT	100uF	20%	16V
C812	1-104-664-11	ELECT	47uF	20%	10V
C813	1-104-664-11	ELECT	47uF	20%	10V
C816	1-104-664-11	ELECT	47uF	20%	10V
C817	1-104-664-11	ELECT	47uF	20%	10V
C818	1-104-664-11	ELECT	47uF	20%	10V
C819	1-104-664-11	ELECT	47uF	20%	10V

Ref. No.	Part No.	Description			Remark
C831	1-124-636-00	ELECT	3300uF	20%	25V
C832	1-124-636-00	ELECT	3300uF	20%	25V
C852	1-104-666-11	ELECT	220uF	20%	6.3V
C853	1-104-666-11	ELECT	220uF	20%	6.3V
C858	1-124-443-00	ELECT	100uF	20%	10V
C859	1-126-961-11	ELECT	2.2uF	20%	50V
C860	1-124-907-11	ELECT	10uF	20%	50V
C861	1-164-159-11	CERAMIC	0.1uF		50V
C921	1-164-159-11	CERAMIC	0.1uF		50V
C922	1-164-159-11	CERAMIC	0.1uF		50V
C971	1-164-159-11	CERAMIC	0.1uF		50V
C972	1-164-159-11	CERAMIC	0.1uF		50V
C1001	1-101-005-00	CERAMIC	22000PF		50V
C1031	1-124-464-11	ELECT	0.22uF	20%	50V
C7001	1-101-884-00	CERAMIC	56PF	5%	50V
C7002	1-101-884-00	CERAMIC	56PF	5%	50V
C7003	1-164-159-11	CERAMIC	0.1uF		50V
C7004	1-136-177-00	FILM	1uF	5%	50V
C7005	1-104-664-11	ELECT	47uF	20%	10V
C7006	1-126-961-11	ELECT	2.2uF	20%	50V
C7007	1-162-288-31	CERAMIC	330PF	10%	50V
C7008	1-164-159-11	CERAMIC	0.1uF		50V
C7009	1-136-177-00	FILM	1uF	5%	50V
C7010	1-162-291-31	CERAMIC	560PF	10%	50V
C7011	1-104-664-11	ELECT	47uF	20%	10V
C7012	1-104-665-11	ELECT	100uF	20%	16V
C7013	1-124-907-11	ELECT	10uF	20%	50V
C7014	1-164-159-11	CERAMIC	0.1uF		50V
C7015	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN103	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P			
CN105	1-774-338-11	SOCKET, CONNECTOR(PC BOARD) 18P			
CN106	1-774-337-11	SOCKET, CONNECTOR(PC BOARD) 16P			
CN802	1-691-773-11	PLUG (MICRO CONNECTOR) 11P			
* CNP701	1-569-624-11	SOCKET, CONNECTOR 17P			
CNP702	1-566-857-11	SOCKET, CONNECTOR 7P			
		< DIODE >			
D701	8-719-200-82	DIODE	11ES2		
D702	8-719-200-82	DIODE	11ES2		
D801	8-719-025-03	DIODE	RBA-402-SL		
D804	8-719-011-16	DIODE	UZ-33BSA-TP		
D805	8-719-010-52	DIODE	UZ-7.5BS-TP		
D807	8-719-109-98	DIODE	RD6.8ES-B3		
D808	8-719-010-52	DIODE	UZ-7.5BS-TP		
D809	8-719-987-63	DIODE	1N4148M		
D810	8-719-987-63	DIODE	1N4148M		
D811	8-719-200-02	DIODE	10E2		
D812	8-719-200-02	DIODE	10E2		
D813	8-719-200-02	DIODE	10E2		

Ref. No.	Part No.	Description		Remark
D814	8-719-200-02	DIODE	10E2	
D821	8-719-987-63	DIODE	1N4148M	
D824	8-719-200-82	DIODE	11ES2	
D840	8-719-987-63	DIODE	1N4148M	
D841	8-719-987-63	DIODE	1N4148M	
D852	8-719-987-63	DIODE	1N4148M	
D1031	8-719-987-63	DIODE	1N4148M	
		< PLATE, GROUND >		
* E801	4-942-204-01	PLATE, GROUND		
		< IC >		
IC101	8-759-634-51	IC	M5218AP	
IC105	8-759-331-39	IC	M62427FP	
IC107	8-759-000-49	IC	MC14066BCP	
IC701	8-759-000-48	IC	MC14052BCP	
IC770	8-759-634-51	IC	M5218AP	
IC801	8-759-231-58	IC	TA7812S	
IC850	8-759-111-68	IC	uPC1237HA	
IC7001	8-759-169-99	IC	SAA6579	
IC7002	8-759-634-51	IC	M5218AP	
		< JACK >		
J102	1-507-854-00	JACK,PHONE	(PHONES)	
J701	1-565-258-11	JACK, PIN 4P	(MD(OUT R/L,IN R/L))	
J702	1-507-854-00	JACK,PHONE	(MIX MIC)	
		< LEAD, JUMPER >		
* JW257	1-535-730-21	LEAD, JUMPER (OFC)		
* JW258	1-535-730-21	LEAD, JUMPER (OFC)		
* JW259	1-535-730-21	LEAD, JUMPER (OFC)		
* JW260	1-535-730-21	LEAD, JUMPER (OFC)		
* JW261	1-535-730-21	LEAD, JUMPER (OFC)		
* JW262	1-535-730-21	LEAD, JUMPER (OFC)		
* JW263	1-535-730-21	LEAD, JUMPER (OFC)		
* JW264	1-535-730-21	LEAD, JUMPER (OFC)		
* JW265	1-535-730-21	LEAD, JUMPER (OFC)		
* JW266	1-535-730-21	LEAD, JUMPER (OFC)		
* JW267	1-535-730-21	LEAD, JUMPER (OFC)		
* JW268	1-535-730-21	LEAD, JUMPER (OFC)		
		< COIL >		
L921	1-420-872-00	COIL, AIR CORE		
L971	1-420-872-00	COIL, AIR CORE		
		< TRANSISTOR >		
Q106	8-729-620-05	TRANSISTOR	2SC2603-EF	
Q190	8-729-900-61	TRANSISTOR	DTA114ES	
Q191	8-729-141-26	TRANSISTOR	2SC3622A-LK	
Q192	8-729-141-26	TRANSISTOR	2SC3622A-LK	
Q801	8-729-018-59	TRANSISTOR	2SB1375-LC	

MAIN

Ref. No.	Part No.	Description				Remark
Q802	8-729-018-60	TRANSISTOR	2SD2012-LC			
Q804	8-729-209-15	TRANSISTOR	2SD2012			
Q805	8-729-018-59	TRANSISTOR	2SB1375-LC			
Q810	8-729-900-80	TRANSISTOR	DTC114ES			
Q856	8-729-900-89	TRANSISTOR	DTC144ES			
Q857	8-729-900-63	TRANSISTOR	DTA124ES			
Q1001	8-729-119-78	TRANSISTOR	2SC403SP-51			
Q1051	8-729-119-78	TRANSISTOR	2SC403SP-51			
		< RESISTOR >				
R101	1-249-429-11	CARBON	10K	5%	1/4W	
R102	1-249-429-11	CARBON	10K	5%	1/4W	
R103	1-249-429-11	CARBON	10K	5%	1/4W	
R104	1-249-437-11	CARBON	47K	5%	1/4W	
R105	1-249-437-11	CARBON	47K	5%	1/4W	
R106	1-249-416-11	CARBON	820	5%	1/4W	
R107	1-249-416-11	CARBON	820	5%	1/4W	
R108	1-247-887-00	CARBON	220K	5%	1/4W	
R109	1-249-421-11	CARBON	2.2K	5%	1/4W	
R110	1-249-417-11	CARBON	1K	5%	1/4W	
R111	1-249-441-11	CARBON	100K	5%	1/4W	
R112	1-249-425-11	CARBON	4.7K	5%	1/4W	
R113	1-249-435-11	CARBON	33K	5%	1/4W	
R114	1-249-441-11	CARBON	100K	5%	1/4W	
R124	1-249-437-11	CARBON	47K	5%	1/4W	
R125	1-247-807-31	CARBON	100	5%	1/4W	
R126	1-247-883-00	CARBON	150K	5%	1/4W	
R129	1-247-887-00	CARBON	220K	5%	1/4W	
R135	1-247-807-31	CARBON	100	5%	1/4W	
R136	1-247-807-31	CARBON	100	5%	1/4W	
R137	1-247-807-31	CARBON	100	5%	1/4W	
R138	1-247-807-31	CARBON	100	5%	1/4W	
R139	1-247-807-31	CARBON	100	5%	1/4W	
R140	1-247-807-31	CARBON	100	5%	1/4W	
R143	1-247-807-31	CARBON	100	5%	1/4W	
R144	1-247-807-31	CARBON	100	5%	1/4W	
R145	1-247-807-31	CARBON	100	5%	1/4W	
R147	1-247-807-31	CARBON	100	5%	1/4W	
R148	1-247-807-31	CARBON	100	5%	1/4W	
R149	1-247-807-31	CARBON	100	5%	1/4W	
R150	1-247-807-31	CARBON	100	5%	1/4W	
R151	1-249-437-11	CARBON	47K	5%	1/4W	
R152	1-249-437-11	CARBON	47K	5%	1/4W	
R156	1-249-416-11	CARBON	820	5%	1/4W	
R157	1-249-416-11	CARBON	820	5%	1/4W	
R158	1-247-887-00	CARBON	220K	5%	1/4W	
R159	1-249-421-11	CARBON	2.2K	5%	1/4W	
R160	1-249-417-11	CARBON	1K	5%	1/4W	
R161	1-249-441-11	CARBON	100K	5%	1/4W	
R162	1-249-425-11	CARBON	4.7K	5%	1/4W	
R163	1-249-435-11	CARBON	33K	5%	1/4W	
R164	1-249-441-11	CARBON	100K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R172	1-249-429-11	CARBON	10K	5%	1/4W	
R173	1-249-429-11	CARBON	10K	5%	1/4W	
R174	1-249-437-11	CARBON	47K	5%	1/4W	
R175	1-249-429-11	CARBON	10K	5%	1/4W	
R176	1-247-883-00	CARBON	150K	5%	1/4W	
R177	1-249-429-11	CARBON	10K	5%	1/4W	
R181	1-247-807-31	CARBON	100	5%	1/4W	
R182	1-247-807-31	CARBON	100	5%	1/4W	
R183	1-247-807-31	CARBON	100	5%	1/4W	
R185	1-247-807-31	CARBON	100	5%	1/4W	
R186	1-247-807-31	CARBON	100	5%	1/4W	
R187	1-247-807-31	CARBON	100	5%	1/4W	
R188	1-247-807-31	CARBON	100	5%	1/4W	
R189	1-247-807-31	CARBON	100	5%	1/4W	
R190	1-249-441-11	CARBON	100K	5%	1/4W	
R191	1-247-807-31	CARBON	100	5%	1/4W	
R192	1-249-425-11	CARBON	4.7K	5%	1/4W	
R193	1-247-807-31	CARBON	100	5%	1/4W	
R194	1-247-807-31	CARBON	100	5%	1/4W	
R195	1-249-425-11	CARBON	4.7K	5%	1/4W	
R196	1-247-807-31	CARBON	100	5%	1/4W	
R702	1-249-425-11	CARBON	4.7K	5%	1/4W	
R703	1-249-427-11	CARBON	6.8K	5%	1/4W	
R705	1-247-807-31	CARBON	100	5%	1/4W	
R706	1-249-417-11	CARBON	1K	5%	1/4W	
R707	1-249-441-11	CARBON	100K	5%	1/4W	
R709	1-249-429-11	CARBON	10K	5%	1/4W	
R710	1-249-417-11	CARBON	1K	5%	1/4W	
R752	1-249-425-11	CARBON	4.7K	5%	1/4W	
R753	1-249-427-11	CARBON	6.8K	5%	1/4W	
R755	1-247-807-31	CARBON	100	5%	1/4W	
R756	1-249-417-11	CARBON	1K	5%	1/4W	
R757	1-249-441-11	CARBON	100K	5%	1/4W	
R759	1-249-429-11	CARBON	10K	5%	1/4W	
R760	1-249-417-11	CARBON	1K	5%	1/4W	
R761	1-247-807-31	CARBON	100	5%	1/4W	
R762	1-247-807-31	CARBON	100	5%	1/4W	
R763	1-247-807-31	CARBON	100	5%	1/4W	
R771	1-249-429-11	CARBON	10K	5%	1/4W	
R772	1-249-417-11	CARBON	1K	5%	1/4W	
R773	1-249-441-11	CARBON	100K	5%	1/4W	
R774	1-249-417-11	CARBON	1K	5%	1/4W	
R775	1-249-429-11	CARBON	10K	5%	1/4W	
R777	1-249-423-11	CARBON	3.3K	5%	1/4W	
R779	1-249-441-11	CARBON	100K	5%	1/4W	
R780	1-247-807-31	CARBON	100	5%	1/4W	
⚠ R801	1-212-982-00	FUSIBLE	100	5%	1/2W	F
R804	1-249-417-11	CARBON	1K	5%	1/4W	
R805	1-249-417-11	CARBON	1K	5%	1/4W	
R807	1-249-417-11	CARBON	1K	5%	1/4W	
⚠ R808	1-212-853-00	FUSIBLE	6.8	5%	1/4W	F
R809	1-249-417-11	CARBON	1K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN PANEL JOG ENCODER KEY VOL ENCODER

Ref. No.	Part No.	Description			Remark
⚠ R810	1-212-934-00	FUSIBLE	1	5%	1/2W F
⚠ R811	1-212-853-00	FUSIBLE	6.8	5%	1/4W F
⚠ R813	1-212-946-11	FUSIBLE	3.3	5%	1/2W F
R818	1-249-417-11	CARBON	1K	5%	1/4W
R819	1-249-417-11	CARBON	1K	5%	1/4W
R840	1-249-429-11	CARBON	10K	5%	1/4W
R851	1-249-429-11	CARBON	10K	5%	1/4W
R853	1-249-397-11	CARBON	22	5%	1/4W
R854	1-249-441-11	CARBON	100K	5%	1/4W
R856	1-249-429-11	CARBON	10K	5%	1/4W
R857	1-249-435-11	CARBON	33K	5%	1/4W
R858	1-249-437-11	CARBON	47K	5%	1/4W
R859	1-249-439-11	CARBON	68K	5%	1/4W
R860	1-249-421-11	CARBON	2.2K	5%	1/4W
R921	1-249-393-11	CARBON	10	5%	1/4W
R922	1-249-389-11	CARBON	4.7	5%	1/4W
R923	1-249-389-11	CARBON	4.7	5%	1/4W
R944	1-249-417-11	CARBON	1K	5%	1/4W
R971	1-249-393-11	CARBON	10	5%	1/4W
R972	1-249-389-11	CARBON	4.7	5%	1/4W
R973	1-249-389-11	CARBON	4.7	5%	1/4W
R1001	1-249-429-11	CARBON	10K	5%	1/4W
R1002	1-249-429-11	CARBON	10K	5%	1/4W
R1013	1-249-425-11	CARBON	4.7K	5%	1/4W
R1021	1-249-429-11	CARBON	10K	5%	1/4W
R1031	1-247-903-00	CARBON	1M	5%	1/4W
R1032	1-249-413-11	CARBON	470	5%	1/4W
R1033	1-249-433-11	CARBON	22K	5%	1/4W
R1034	1-249-433-11	CARBON	22K	5%	1/4W
R1063	1-249-425-11	CARBON	4.7K	5%	1/4W
R1071	1-249-429-11	CARBON	10K	5%	1/4W
R7001	1-249-421-11	CARBON	2.2K	5%	1/4W
R7002	1-249-429-11	CARBON	10K	5%	1/4W
R7003	1-249-441-11	CARBON	100K	5%	1/4W
R7004	1-249-441-11	CARBON	100K	5%	1/4W
R7005	1-249-441-11	CARBON	100K	5%	1/4W
R7006	1-249-441-11	CARBON	100K	5%	1/4W
R7007	1-249-441-11	CARBON	100K	5%	1/4W
R7008	1-247-807-31	CARBON	100	5%	1/4W
R7009	1-247-807-31	CARBON	100	5%	1/4W
		< VARIABLE RESISTOR >			
RV771	1-223-672-11	RES, VAR, CARBON 10K (MIC LEVEL)			
		< RELAY >			
RY801	1-515-921-11	RELAY (12V)			
		< TERMINAL >			
TB901	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X7001	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)			
**********					
*	A-4389-335-A	PANEL BOARD, COMPLETE (German)			
	A-4389-336-A	PANEL BOARD, COMPLETE (Italian)			
*	A-4389-330-A	PANEL BOARD, COMPLETE (AEP,AED)			
*	A-4389-337-A	PANEL BOARD, COMPLETE (UK)			
		**********			
		JOG ENCODER BOARD			
		**********			
		KEY BOARD			
		**********			
		VOL ENCODER BOARD			
		**********			
*	4-932-810-01	CUSHION (FL)			
*	4-971-014-01	HOLDER, FL TUBE			
*	4-978-036-04	HOUSE, LAMP			
		< CAPACITOR >			
C501	1-104-905-11	CAPACITOR	0.22F		5.5V
C502	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C504	1-164-159-11	CERAMIC	0.1uF		50V
C505	1-164-159-11	CERAMIC	0.1uF		50V
C506	1-126-968-11	ELECT	100uF	20%	35V
C511	1-126-968-11	ELECT	100uF	20%	6.3V
C540	1-164-159-11	CERAMIC	0.1uF		50V
C541	1-126-233-11	ELECT	22uF	20%	50V
C542	1-164-159-11	CERAMIC	0.1uF		50V
C543	1-163-165-00	CERAMIC CHIP	22PF	5%	50V
C544	1-163-163-00	CERAMIC CHIP	18PF	5%	50V
C545	1-164-159-11	CERAMIC	0.1uF		50V
C5001	1-101-006-00	CERAMIC	0.047uF		50V
C5002	1-124-464-11	ELECT	0.22uF	20%	50V
C5003	1-101-004-00	CERAMIC	0.01uF		50V
C5004	1-130-473-00	MYLAR	0.0015uF	5%	50V
C5005	1-136-155-00	FILM	0.015uF	5%	50V
C5006	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C5007	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C5020	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C5021	1-124-907-11	ELECT	10uF	20%	50V
C5031	1-126-956-91	ELECT	0.1uF	20%	50V
C5032	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5033	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5034	1-163-038-91	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN501	1-774-344-11	PLUG, CONNECTOR (PC BOARD) 18P			
CN502	1-774-343-11	PLUG, CONNECTOR (PC BOARD) 16P			
		< DIODE >			
D503	8-719-014-73	DIODE UZP-5.6BC-TP			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PANEL JOG ENCODER KEY VOL ENCODER

Ref. No.	Part No.	Description		Remark
D510	8-719-046-39	LED	SEL5821A-TH15 (◁◁ / ▷▷)	
D511	8-719-046-39	LED	SEL5821A-TH15 (◁◁ / ▷▷)	
D512	8-719-046-39	LED	SEL5821A-TH15 (+/–)	
D513	8-719-046-39	LED	SEL5821A-TH15 (+/–)	
D514	8-719-812-44	LED	TLO124 (ENTER/NEXT)	
D515	8-719-812-44	LED	TLO124 (EFECT ON/OFF)	
D516	8-719-046-43	LED	SEL5421E-TP15 (TUNER/BAND)	
D518	8-719-046-39	LED	SEL5821A-TH15 (TUNER)	
D519	8-719-046-39	LED	SEL5821A-TH15 (EFECT)	
D520	8-719-057-62	LED	SEL1810D-TP3 (TIMER.SET)	
D521	8-719-058-23	LED	HLMF-K405-2UP (REPEAT)	
D522	8-719-058-23	LED	HLMF-K405-2UP (CLIP A)	
D523	8-719-058-23	LED	HLMF-K405-2UP (CLIP C)	
D524	8-719-058-23	LED	HLMF-K405-2UP (CLIP ERASE)	
D525	8-719-058-23	LED	HLMF-K405-2UP (CLIP ERASE)	
D526	8-719-058-23	LED	HLMF-K405-2UP (1/ALL DISC)	
D527	8-719-058-23	LED	HLMF-K405-2UP (1/ALL DISC)	
D528	8-719-046-39	LED	SEL5821A-TH15 (TIMER)	
D529	8-719-046-39	LED	SEL5821A-TH15 (←— —→)	
D530	8-719-046-39	LED	SEL5821A-TH15 (←— —→)	
D531	8-719-046-42	LED	SEL5421E-TH8F (TIMER)	
D532	8-719-046-39	LED	SEL5821A-TH15 (GROOVE)	
D533	8-719-058-23	LED	HLMF-K405-2UP (PTY)	
D534	8-719-057-62	LED	SEL1810D-TP3 (TUNER MEMORY)	
D535	8-719-057-62	LED	SEL1810D-TP3 (TUNER MODE)	
D536	8-719-057-62	LED	SEL1810D-TP3 (CLOCK SET)	
D537	8-719-057-62	LED	SEL1810D-TP3 (TIMER SELECT)	
D538	8-719-046-39	LED	SEL5821A-TH15 (CD)	
D539	8-719-058-23	LED	HLMF-K405-2UP (CLIP B)	
D540	8-719-058-23	LED	HLMF-K405-2UP (CLIP PLAY)	
D541	8-719-058-23	LED	HLMF-K405-2UP (CLIP PLAY)	
D542	8-719-058-23	LED	HLMF-K405-2UP (EDIT)	
D543	8-719-058-23	LED	HLMF-K405-2UP (PLAY MODE)	
D544	8-719-058-23	LED	HLMF-K405-2UP (PLAY MODE)	
D550	8-719-200-82	DIODE	11ES2	
D551	8-719-987-63	DIODE	1N4148M	
D552	8-719-987-63	DIODE	1N4148M	
D553	8-719-987-63	DIODE	1N4148M	
D554	8-719-987-63	DIODE	1N4148M	
D555	8-719-987-63	DIODE	1N4148M	
D556	8-719-010-48	DIODE	UZ-6.8BS	
D557	8-719-987-63	DIODE	1N4148M	
D5001	8-719-988-62	DIODE	1SS355	
D5002	8-719-988-62	DIODE	1SS355	
D5003	8-719-988-62	DIODE	1SS355	
D5004	8-719-988-62	DIODE	1SS355	
D5010	8-719-987-63	DIODE	1N4148M	
		< INDICATOR TUBE >		
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT		

Ref. No.	Part No.	Description			Remark
		< IC >			
IC501	8-759-385-36	IC ASD0204-014			
IC502	8-759-332-18	IC GP1U27XB			
IC503	8-759-165-82	IC PST600E-T			
IC504	8-759-372-64	IC M66313FP-200C			
		< JUMPER RESISTOR >			
JR505	1-216-295-91	METAL CHIP	0	5%	1/10W
JR506	1-216-296-91	METAL CHIP	0	5%	1/8W
JR508	1-216-296-91	METAL CHIP	0	5%	1/8W
JR509	1-216-296-91	METAL CHIP	0	5%	1/8W
JR510	1-216-295-91	METAL CHIP	0	5%	1/10W
JR512	1-216-296-91	METAL CHIP	0	5%	1/8W
JR515	1-216-296-91	METAL CHIP	0	5%	1/8W
JR516	1-216-296-91	METAL CHIP	0	5%	1/8W
JR517	1-216-296-91	METAL CHIP	0	5%	1/8W
JR518	1-216-296-91	METAL CHIP	0	5%	1/8W
JR519	1-216-296-91	METAL CHIP	0	5%	1/8W
JR520	1-216-296-91	METAL CHIP	0	5%	1/8W
JR521	1-216-295-91	METAL CHIP	0	5%	1/10W
JR522	1-216-295-91	METAL CHIP	0	5%	1/10W
JR523	1-216-296-91	METAL CHIP	0	5%	1/8W
JR524	1-216-296-91	METAL CHIP	0	5%	1/8W
JR525	1-216-296-91	METAL CHIP	0	5%	1/8W
JR526	1-216-296-91	METAL CHIP	0	5%	1/8W
JR529	1-216-296-91	METAL CHIP	0	5%	1/8W
JR530	1-216-296-91	METAL CHIP	0	5%	1/8W
JR531	1-216-296-91	METAL CHIP	0	5%	1/8W
JR532	1-216-296-91	METAL CHIP	0	5%	1/8W
JR533	1-216-296-91	METAL CHIP	0	5%	1/8W
JR534	1-216-296-91	METAL CHIP	0	5%	1/8W
JR535	1-216-296-91	METAL CHIP	0	5%	1/8W
JR536	1-216-295-91	METAL CHIP	0	5%	1/10W
JR537	1-216-295-91	METAL CHIP	0	5%	1/10W
JR538	1-216-295-91	METAL CHIP	0	5%	1/10W
JR539	1-216-296-91	METAL CHIP	0	5%	1/8W
JR540	1-216-296-91	METAL CHIP	0	5%	1/8W
JR541	1-216-296-91	METAL CHIP	0	5%	1/8W
JR543	1-216-296-91	METAL CHIP	0	5%	1/8W
JR544	1-216-296-91	METAL CHIP	0	5%	1/8W
JR546	1-216-295-91	METAL CHIP	0	5%	1/10W
JR547	1-216-296-91	METAL CHIP	0	5%	1/8W
JR552	1-216-296-91	METAL CHIP	0	5%	1/8W
JR553	1-216-296-91	METAL CHIP	0	5%	1/8W
JR554	1-216-296-91	METAL CHIP	0	5%	1/8W
JR555	1-216-296-91	METAL CHIP	0	5%	1/8W
JR556	1-216-296-91	METAL CHIP	0	5%	1/8W
JR558	1-216-296-91	METAL CHIP	0	5%	1/8W
JR559	1-216-296-91	METAL CHIP	0	5%	1/8W
JR560	1-216-296-91	METAL CHIP	0	5%	1/8W
JR561	1-216-296-91	METAL CHIP	0	5%	1/8W
JR562	1-216-296-91	METAL CHIP	0	5%	1/8W

Ref. No.	Part No.	Description			Remark
JR563	1-216-295-91	METAL CHIP	0	5%	1/10W
JR564	1-216-295-91	METAL CHIP	0	5%	1/10W
JR565	1-216-296-91	METAL CHIP	0	5%	1/8W
JR566	1-216-296-91	METAL CHIP	0	5%	1/8W
JR567	1-216-296-91	METAL CHIP	0	5%	1/8W
JR572	1-216-296-91	METAL CHIP	0	5%	1/8W
JR573	1-216-296-91	METAL CHIP	0	5%	1/8W
JR574	1-216-295-91	METAL CHIP	0	5%	1/10W
JR575	1-216-296-91	METAL CHIP	0	5%	1/8W
JR576	1-216-295-91	METAL CHIP	0	5%	1/10W
JR580	1-216-296-91	METAL CHIP	0	5%	1/8W
JR581	1-216-296-91	METAL CHIP	0	5%	1/8W
JR582	1-216-295-91	METAL CHIP	0	5%	1/10W
JR583	1-216-295-91	METAL CHIP	0	5%	1/10W
JR584	1-216-296-91	METAL CHIP	0	5%	1/8W
JR585	1-216-296-91	METAL CHIP	0	5%	1/8W
JR586	1-216-296-91	METAL CHIP	0	5%	1/8W
JR587	1-216-296-91	METAL CHIP	0	5%	1/8W
JR588	1-216-296-91	METAL CHIP	0	5%	1/8W
JR589	1-216-296-91	METAL CHIP	0	5%	1/8W
JR590	1-216-296-91	METAL CHIP	0	5%	1/8W
JR591	1-216-296-91	METAL CHIP	0	5%	1/8W
JR595	1-216-295-91	METAL CHIP	0	5%	1/10W
JR596	1-216-295-91	METAL CHIP	0	5%	1/10W
JR597	1-216-296-91	METAL CHIP	0	5%	1/8W
JR600	1-216-295-91	METAL CHIP	0	5%	1/10W
JR601	1-216-296-91	METAL CHIP	0	5%	1/8W
		< LEAD, JUMPER >			
* JW501	1-535-730-21	LEAD, JUMPER (OFC)			
* JW502	1-535-730-21	LEAD, JUMPER (OFC)			
* JW503	1-535-730-21	LEAD, JUMPER (OFC)			
* JW504	1-535-730-21	LEAD, JUMPER (OFC)			
* JW505	1-535-730-21	LEAD, JUMPER (OFC)			
* JW506	1-535-730-21	LEAD, JUMPER (OFC)			
* JW681	1-535-730-21	LEAD, JUMPER (OFC)			
* JW682	1-535-730-21	LEAD, JUMPER (OFC)			
		< COIL >			
L501	1-410-509-11	INDUCTOR	10uH		
L502	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q501	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q502	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q503	8-729-421-22	TRANSISTOR	UN2211		
Q504	8-729-421-22	TRANSISTOR	UN2211		
Q505	8-729-421-22	TRANSISTOR	UN2211		
Q506	8-729-421-22	TRANSISTOR	UN2211		
Q531	8-729-118-01	TRANSISTOR	2SB1116		
Q532	8-729-118-01	TRANSISTOR	2SB1116		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R501	1-249-401-11	CARBON	47	5%	1/4W
R502	1-249-403-11	CARBON	68	5%	1/4W
R503	1-249-403-11	CARBON	68	5%	1/4W
R504	1-247-807-31	CARBON	100	5%	1/4W
R505	1-249-407-11	CARBON	150	5%	1/4W
R506	1-249-409-11	CARBON	220	5%	1/4W
R507	1-249-411-11	CARBON	330	5%	1/4W
R508	1-249-411-11	CARBON	330	5%	1/4W
R509	1-249-413-11	CARBON	470	5%	1/4W
R510	1-249-415-11	CARBON	680	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W
R512	1-249-419-11	CARBON	1.5K	5%	1/4W
R513	1-249-421-11	CARBON	2.2K	5%	1/4W
R514	1-249-423-11	CARBON	3.3K	5%	1/4W
R516	1-249-401-11	CARBON	47	5%	1/4W
R517	1-249-403-11	CARBON	68	5%	1/4W
R518	1-249-403-11	CARBON	68	5%	1/4W
R519	1-247-807-31	CARBON	100	5%	1/4W
R520	1-249-407-11	CARBON	150	5%	1/4W
R521	1-249-409-11	CARBON	220	5%	1/4W
R522	1-216-037-00	METAL CHIP	330	5%	1/10W
R523	1-216-037-00	METAL CHIP	330	5%	1/10W
R524	1-216-041-00	METAL CHIP	470	5%	1/10W
R525	1-216-045-00	METAL CHIP	680	5%	1/10W
R526	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R527	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R528	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R529	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R530	1-249-397-11	CARBON	22	5%	1/4W
R531	1-249-397-11	CARBON	22	5%	1/4W
R532	1-247-807-31	CARBON	100	5%	1/4W
R533	1-249-401-11	CARBON	47	5%	1/4W
R534	1-249-403-11	CARBON	68	5%	1/4W
R536	1-249-437-11	CARBON	47K	5%	1/4W
R537	1-249-433-11	CARBON	22K	5%	1/4W
R545	1-216-170-00	METAL GLAZE	68	5%	1/8W
R546	1-216-170-00	METAL GLAZE	68	5%	1/8W
R547	1-216-170-00	METAL GLAZE	68	5%	1/8W
R548	1-216-170-00	METAL GLAZE	68	5%	1/8W
R549	1-216-170-00	METAL GLAZE	68	5%	1/8W
R550	1-216-170-00	METAL GLAZE	68	5%	1/8W
R551	1-216-009-00	METAL CHIP	22	5%	1/10W
R552	1-216-009-00	METAL CHIP	22	5%	1/10W
R553	1-216-170-00	METAL GLAZE	68	5%	1/8W
R554	1-249-397-11	CARBON	22	5%	1/4W
R555	1-249-403-11	CARBON	68	5%	1/4W
R556	1-249-403-11	CARBON	68	5%	1/4W
R557	1-216-009-00	METAL CHIP	22	5%	1/10W
R558	1-216-170-00	METAL GLAZE	68	5%	1/8W
R559	1-216-170-00	METAL GLAZE	68	5%	1/8W

PANEL | JOG ENCODER | KEY | VOL ENCODER

Ref. No.	Part No.	Description			Remark
R560	1-216-170-00	METAL GLAZE	68	5%	1/8W
R561	1-216-170-00	METAL GLAZE	68	5%	1/8W
R562	1-216-170-00	METAL GLAZE	68	5%	1/8W
R563	1-216-170-00	METAL GLAZE	68	5%	1/8W
R564	1-216-009-00	METAL CHIP	22	5%	1/10W
R565	1-216-170-00	METAL GLAZE	68	5%	1/8W
R566	1-216-009-00	METAL CHIP	22	5%	1/10W
R568	1-249-425-11	CARBON	4.7K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-393-11	CARBON	10	5%	1/4W
R576	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-247-807-31	CARBON	100	5%	1/4W
R578	1-247-807-31	CARBON	100	5%	1/4W
R579	1-247-807-31	CARBON	100	5%	1/4W
R580	1-247-807-31	CARBON	100	5%	1/4W
R581	1-216-025-91	METAL GLAZE	100	5%	1/10W
R582	1-216-025-91	METAL GLAZE	100	5%	1/10W
R583	1-247-807-31	CARBON	100	5%	1/4W
R584	1-247-807-31	CARBON	100	5%	1/4W
R585	1-247-807-31	CARBON	100	5%	1/4W
R586	1-247-807-31	CARBON	100	5%	1/4W
R587	1-247-807-31	CARBON	100	5%	1/4W
R588	1-247-807-31	CARBON	100	5%	1/4W
R589	1-247-807-31	CARBON	100	5%	1/4W
R592	1-247-807-31	CARBON	100	5%	1/4W
R593	1-247-807-31	CARBON	100	5%	1/4W
R594	1-216-174-00	METAL GLAZE	100	5%	1/8W
R596	1-247-807-31	CARBON	100	5%	1/4W
R597	1-247-807-31	CARBON	100	5%	1/4W
R598	1-247-807-31	CARBON	100	5%	1/4W
R599	1-247-807-31	CARBON	100	5%	1/4W
R5001	1-216-085-00	METAL CHIP	33K	5%	1/10W
R5002	1-216-085-00	METAL CHIP	33K	5%	1/10W
R5003	1-216-085-00	METAL CHIP	33K	5%	1/10W
R5004	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5009	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5010	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5011	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5012	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5013	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5014	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5015	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5016	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5017	1-249-429-11	CARBON	10K	5%	1/4W
R5018	1-249-429-11	CARBON	10K	5%	1/4W
R5019	1-249-421-11	CARBON	2.2K	5%	1/4W
R5020	1-249-429-11	CARBON	10K	5%	1/4W
R5021	1-249-429-11	CARBON	10K	5%	1/4W
R5022	1-249-429-11	CARBON	10K	5%	1/4W
R5023	1-249-429-11	CARBON	10K	5%	1/4W
R5026	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5027	1-216-222-00	METAL GLAZE	10K	5%	1/8W

Ref. No.	Part No.	Description			Remark
R5028	1-249-441-11	CARBON	100K	5%	1/4W
R5029	1-249-441-11	CARBON	100K	5%	1/4W
R5030	1-249-441-11	CARBON	100K	5%	1/4W
R5031	1-249-429-11	CARBON (AEP,UK,AED)	10K	5%	1/4W
R5031	1-249-427-11	CARBON (German,Italian)	6.8K	5%	1/4W
R5032	1-249-423-11	CARBON	3.3K	5%	1/4W
R5033	1-249-441-11	CARBON	100K	5%	1/4W
R5038	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R5051	1-249-421-11	CARBON	2.2K	5%	1/4W
R5052	1-249-409-11	CARBON	220	5%	1/4W
R5053	1-249-409-11	CARBON	220	5%	1/4W
R5071	1-249-423-11	CARBON	3.3K	5%	1/4W
R5072	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5073	1-249-423-11	CARBON	3.3K	5%	1/4W
R5074	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5075	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R5076	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R5077	1-249-429-11	CARBON	10K	5%	1/4W
R5078	1-249-429-11	CARBON	10K	5%	1/4W
R5079	1-249-437-11	CARBON	47K	5%	1/4W
R5082	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5083	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5084	1-216-073-00	METAL CHIP	10K	5%	1/10W

< SWITCH >

S501	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)
S502	1-554-303-21	SWITCH, TACTILE (TIMER)
S503	1-554-303-21	SWITCH, TACTILE (SLEEP)
S505	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)
S506	1-554-303-21	SWITCH, TACTILE (EFECT ON/OFF)
S507	1-554-303-21	SWITCH, TACTILE (MENU 1)
S508	1-554-303-21	SWITCH, TACTILE (MENU 2)
S509	1-554-303-21	SWITCH, TACTILE (MENU 3)
S510	1-554-303-21	SWITCH, TACTILE (MENU 4)
S511	1-554-303-21	SWITCH, TACTILE (MEMORY)
S512	1-554-303-21	SWITCH, TACTILE (SURROUND)
S513	1-554-303-21	SWITCH, TACTILE (FUNCTION)
S514	1-554-303-21	SWITCH, TACTILE (DISPLAY)
S515	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)
S517	1-554-303-21	SWITCH, TACTILE (P.FILE)
S518	1-554-303-21	SWITCH, TACTILE (DBFB)
S519	1-554-303-21	SWITCH, TACTILE (GROOVE)
S520	1-554-303-21	SWITCH, TACTILE (FREQUENCY +)
S521	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)
S522	1-554-303-21	SWITCH, TACTILE (FREQUENCY -)
S523	1-572-184-11	SWITCH, KEYBOARD (CLIP C)
S524	1-572-184-11	SWITCH, KEYBOARD (CLIP B)
S525	1-572-184-11	SWITCH, KEYBOARD (CLIP A)
S526	1-572-184-11	SWITCH, KEYBOARD (CLIP PLAY TUNER MEMORY)
S527	1-572-184-11	SWITCH, KEYBOARD (CLIP ERASE)
S528	1-572-184-11	SWITCH, KEYBOARD (EDIT TUNING MODE)

Ref. No.	Part No.	Description				Remark
S529	1-572-184-11	SWITCH, KEYBOARD (REPEAT TIMER SELECT)				
S530	1-572-184-11	SWITCH, KEYBOARD (PLAY MODE TIMER SET)				
S531	1-572-184-11	SWITCH, KEYBOARD (1/ALL DISCS CLOCKSET)				
S551	1-473-480-11	ENCODER, ROTARY (JOG ENCORDER)				
S552	1-467-869-11	ENCODER, ROTARY (VOL ENCORDER)				
		< VIBRATOR >				
X501	1-579-233-11	VIBRATOR, CERAMIC (5.0MHz)				
X502	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)				
**********						
*	A-4389-334-A	POWER AMPLIFIER BOARD, COMPLETE (EXCEPT UK)				
*	A-4389-341-A	POWER AMPLIFIER BOARD, COMPLETE (UK)				
		**********				
		< CAPACITOR >				
C901	1-126-963-11	ELECT	4.7uF	20%	50V	
C902	1-162-293-31	CERAMIC	820PF	10%	50V	
C903	1-162-286-31	CERAMIC	220PF	10%	50V	
C904	1-126-967-11	ELECT	47uF	20%	50V	
C905	1-126-967-11	ELECT	47uF	20%	50V	
C906	1-136-163-00	FILM	0.068uF	5%	50V	
C907	1-136-163-00	FILM	0.068uF	5%	50V	
C929	1-164-159-11	CERAMIC	0.1uF		50V	
C932	1-124-910-11	ELECT	47uF	20%	50V	
C933	1-164-159-11	CERAMIC	0.1uF		50V	
C934	1-126-968-11	ELECT	100uF	20%	50V	
C937	1-126-965-11	ELECT	22uF	20%	50V	
C938	1-126-934-11	ELECT	220uF	20%	16V	
C940	1-124-910-11	ELECT	47uF	20%	50V	
C950	1-136-161-00	FILM	0.047uF	5%	50V	
C951	1-126-963-11	ELECT	4.7uF	20%	50V	
C952	1-162-293-31	CERAMIC	820PF	10%	50V	
C953	1-162-286-31	CERAMIC	220PF	10%	50V	
C954	1-126-967-11	ELECT	47uF	20%	50V	
C955	1-126-967-11	ELECT	47uF	20%	50V	
C956	1-136-163-00	FILM	0.068uF	5%	50V	
C957	1-136-163-00	FILM	0.068uF	5%	50V	
		< DIODE >				
D903	8-719-987-63	DIODE 1N4148M				
D953	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC901	8-749-920-09	IC STK-4152MK2K				
		< TRANSISTOR >				
Q901	8-729-900-80	TRANSISTOR DTC114ES				
Q902	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q952	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				

Ref. No.	Part No.	Description				Remark
		< RESISTOR >				
R121	1-249-441-11	CARBON	100K	5%	1/4W	
R171	1-249-441-11	CARBON	100K	5%	1/4W	
R901	1-249-417-11	CARBON	1K	5%	1/4W	
R902	1-249-437-11	CARBON	47K	5%	1/4W	
R903	1-249-413-11	CARBON	470	5%	1/4W	
R904	1-249-437-11	CARBON	47K	5%	1/4W	
R906	1-249-425-11	CARBON	4.7K	5%	1/4W	
R907	1-249-425-11	CARBON	4.7K	5%	1/4W	
R908	1-249-425-11	CARBON	4.7K	5%	1/4W	
R909	1-249-425-11	CARBON	4.7K	5%	1/4W	
R910	1-249-397-11	CARBON	22	5%	1/4W	
R911	1-249-397-11	CARBON	22	5%	1/4W	
R913	1-249-417-11	CARBON	1K	5%	1/4W	
R914	1-249-431-11	CARBON	15K	5%	1/4W	
R915	1-249-441-11	CARBON	100K	5%	1/4W	
⚠ R920	1-217-151-00	RES, METAL PLATE	0.22			
⚠ R932	1-212-881-11	FUSIBLE	100	5%	1/4W F	
R933	1-249-421-11	CARBON	2.2K	5%	1/4W	
R934	1-249-421-11	CARBON	2.2K	5%	1/4W	
R935	1-249-421-11	CARBON	2.2K	5%	1/4W	
R936	1-249-421-11	CARBON	2.2K	5%	1/4W	
R937	1-249-437-11	CARBON	47K	5%	1/4W	
R938	1-249-441-11	CARBON	100K	5%	1/4W	
R939	1-249-433-11	CARBON	22K	5%	1/4W	
R940	1-249-433-11	CARBON	22K	5%	1/4W	
R941	1-249-429-11	CARBON	10K	5%	1/4W	
R942	1-249-413-11	CARBON	470	5%	1/4W	
⚠ R943	1-212-881-11	FUSIBLE	100	5%	1/4W F	
R951	1-249-417-11	CARBON	1K	5%	1/4W	
R952	1-249-437-11	CARBON	47K	5%	1/4W	
R953	1-249-413-11	CARBON	470	5%	1/4W	
R954	1-249-437-11	CARBON	47K	5%	1/4W	
R956	1-249-425-11	CARBON	4.7K	5%	1/4W	
R957	1-249-425-11	CARBON	4.7K	5%	1/4W	
R958	1-249-425-11	CARBON	4.7K	5%	1/4W	
R959	1-249-425-11	CARBON	4.7K	5%	1/4W	
R960	1-249-397-11	CARBON	22	5%	1/4W	
R961	1-249-397-11	CARBON	22	5%	1/4W	
R963	1-249-417-11	CARBON	1K	5%	1/4W	
R964	1-249-431-11	CARBON	15K	5%	1/4W	
R965	1-249-441-11	CARBON	100K	5%	1/4W	
⚠ R970	1-217-151-00	RES, METAL PLATE	0.22			
⚠ R998	1-212-849-00	FUSIBLE	4.7	5%	1/4W F	
⚠ R999	1-212-849-00	FUSIBLE	4.7	5%	1/4W F	
**********						
*	1-660-130-11	SURROUND BOARD				
		**********				
		< CONNECTOR >				
CN902	1-564-517-11	PLUG, CONNECTOR 2P				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SURROUND TCB

Ref. No.	Part No.	Description			Remark
		< TERMINAL >			
TB902	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SURROUND SPEAKER)			
**********					
*	A-4303-529-A	TCB BOARD, COMPLETE (AEP,AED,UK)			
*	A-4303-530-A	TCB BOARD, COMPLETE (German,Italian)			
		**********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC	100000PF		50V
C5	1-163-031-11	CERAMIC	10000PF		50V
C6	1-163-038-91	CERAMIC	100000PF		50V
C8	1-163-031-11	CERAMIC	10000PF		50V
C9	1-163-031-11	CERAMIC	10000PF		50V
C10	1-163-031-11	CERAMIC	10000PF		50V
C11	1-216-295-91	METAL CHIP	0	5%	1/10W (German,Italian)
C16	1-163-038-91	CERAMIC	100000PF		50V
C19	1-163-249-11	CHIP CERAMIC	82PF	5%	50V (AEP,UK,AED)
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC	10000PF		50V
C23	1-163-235-11	CHIP CERAMIC	22PF	5%	50V
C24	1-163-239-11	CHIP CERAMIC	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	10000PF	30%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CERAMIC	10000PF		50V
C32	1-163-038-91	CERAMIC	100000PF		50V
C33	1-163-038-91	CERAMIC	100000PF		50V
C34	1-163-091-00	CERAMIC CHIP	8PF		50V (German,Italian)
C34	1-163-229-11	CHIP CERAMIC	12PF	5%	50V (AEP,UK,AED)
C35	1-163-038-91	CERAMIC	100000PF	50V	
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CERAMIC	10000PF		50V
C41	1-163-031-11	CERAMIC	10000PF		50V
C42	1-163-038-91	CERAMIC	100000PF		50V
C43	1-163-038-91	CERAMIC	100000PF		50V
C44	1-163-031-11	CERAMIC	10000PF		50V
C45	1-163-038-91	CERAMIC	100000PF		50V
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	ELECT	47uF	20%	16V
C48	1-163-031-11	CERAMIC	10000PF		50V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1.0uF	20%	50V
C51	1-124-903-11	ELECT	1.0uF	20%	50V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-126-157-11	ELECT	10uF	20%	16V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-126-157-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	ELECT	47uF	20%	16V
C65	1-163-031-11	CERAMIC	10000PF		50V
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	ELECT	100uF	20%	50V
C68	1-162-306-11	CERAMIC	10000PF	30%	16V
C71	1-162-306-11	CERAMIC	10000PF	30%	16V
C72	1-126-967-11	ELECT	47uF	20%	16V
C120	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
		< FILTER >			
CF1	1-579-374-71	FILTER, CERAMIC			
CF2	1-760-393-11	FILTER, CERAMIC			
CF3	1-760-393-11	FILTER, CERAMIC			
		< CONNECTOR >			
CN1	1-774-292-11	HOUSING,CONNECTOR(PC BOARD)15P			
		< DIODE >			
D21	8-719-976-99	DIODE DTZ5.1B			
D41	8-719-016-74	DIODE 1SS352-TPH3			
		< FRONT END >			
FE1	1-233-542-11	ENCAPSULATED COMPONENT			
FE2	1-233-514-11	ENCAPSULATED COMPONENT (AEP,UK,AED)			
FE2	1-239-260-11	ENCAPSULATED COMPONENT (German,Italian)			
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER,IF(CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR1	1-216-295-91	METAL CHIP	0	5%	1/10W (German,Italian)
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,AED)

Ref. No.	Part No.	Description			Remark
JR3	1-216-295-91	METAL CHIP	0	5%	1/10W (German,Italian)
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W
JR7	1-216-295-91	METAL CHIP	0	5%	1/10W (German,Italian)
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,AED)
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,AED)
JR45	1-216-295-91	METAL CHIP	0	5%	1/10W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W
JR47	1-216-295-91	METAL CHIP	0	5%	1/10W
JR48	1-216-295-91	METAL CHIP	0	5%	1/10W
JR49	1-216-296-91	METAL CHIP	0	5%	1/8W
JR51	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,AED)
JR52	1-216-295-91	METAL CHIP	0	5%	1/10W
JR53	1-216-296-91	METAL CHIP	0	5%	1/8W (AEP,UK,AED)
JR54	1-216-295-91	METAL CHIP	0	5%	1/10W
		< JUMPER RESISTOR >			
JW4	1-249-413-11	CARBON	470	5%	1/4W
JW5	1-249-413-11	CARBON	470	5%	1/4W
		< COIL >			
L2	1-414-142-11	MICRO INDUCTOR 1uH			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L4	1-410-515-11	MICRO INDUCTOR 33uH			
L41	1-407-500-00	MICRO INDUCTOR 4.7mH (AEP,UK,AED)			
L41	1-410-119-11	MICRO INDUCTOR 1mH (German,Italian)			
		< FILTER >			
LPF1	1-239-845-11	FILTER, LOW PASS			
LPF2	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q2	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q3	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q4	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q5	8-729-424-08	TRANSISTOR	MUN2111T1		
Q9	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6 (AEP,UK, AED)		
Q11	8-729-421-22	TRANSISTOR	MUN2211T1 (AEP,UK,AED)		
Q12	8-729-421-22	TRANSISTOR	MUN2211T1 (AEP,UK,AED)		
Q13	8-729-421-22	TRANSISTOR	MUN2211T1 (AEP,UK,AED)		
Q14	8-729-421-22	TRANSISTOR	MUN2211T1 (AEP,UK,AED)		
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,AED)
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,AED)
R21	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R22	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R23	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R24	1-216-025-91	RES, CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	RES, CHIP	330	5%	1/8W
R31	1-216-025-91	RES, CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W
R33	1-249-425-11	CARBON	4.7K	5%	1/4W
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	RES, CHIP	4.7K	5%	1/8W
R36	1-216-025-91	RES, CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	RES, CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-021-00	METAL CHIP	68	5%	1/10W
R45	1-249-423-11	CARBON	3.3K	5%	1/4W
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-91	RES, CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1K	5%	1/4W
R49	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R53	1-249-429-11	CARBON	10K	5%	1/4W
R55	1-216-162-00	RES, CHIP	33	5%	1/8W
R56	1-249-393-11	CARBON	10	5%	1/4W
R91	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,AED)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,AED)
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,AED)

TCB TRANSFORMER A TRANSFORMER B

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV41	1-238-601-11	RES, ADJ, CARBON 22K (AM TUNING LEVEL)	
RV42	1-238-600-11	RES, ADJ, CARBON 10K (FM TUNING LEVEL)	
		< TERMINAL >	
TM1	1-537-488-11	TERMINAL BOARD (ANTENNA)	
		< VIBRATOR >	
X21	1-760-549-11	VIBRATOR, CRYSTAL	
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)	
X42	1-527-981-00	FILTER, CERAMIC (450kHz)	
X43	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)	
**********			
*	1-658-764-11	TRANSFORMER A BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< CONNECTOR >	
CN851	1-564-321-00	PIN, CONNECTOR 2P	
		< FUSE >	
⚠ F851	1-532-285-00	FUSE,TIME LAG (1.25A / 250V)	
**********			
*	1-658-765-11	TRANSFORMER B BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< CONNECTOR >	
* CN852	1-564-527-11	PLUG, CONNECTOR 12P	
		< FUSE >	
⚠ F853	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F854	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F855	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F856	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
**********			
		MISCELLANEOUS **********	
5	1-533-293-11	FUSE HOLDER	
⚠ CNP801	1-574-805-11	CORD, POWER (EXCEPT UK)	
⚠ CNP801	1-696-570-21	CORD, POWER (UK)	
* E801	4-942-204-01	PLATE, GROUND	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
⚠ F851	1-532-285-00	FUSE,TIME LAG (1.25A / 250V)	
⚠ F853	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F854	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F855	1-532-203-00	FUSE,TIME LAG (2A / 250V)	
⚠ F856	1-532-203-00	FUSE,TIME LAG (2A / 250V)	

Ref. No.	Part No.	Description	Remark
⚠ T801	1-429-258-11	TRANSFORMER, POWER (EXCEPT UK)	
⚠ T801	1-429-643-11	TRANSFORMER, POWER (UK)	
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	1-473-463-11	COMMANDER, STANDARD (RM-SW55)	
	1-501-804-11	ANTENNA (FM)	
	1-776-017-11	CORD (WITH CONNECTOR) (17P) (SYSTEM CONTROL 1)	
	1-776-018-11	CODE (WITH CONNECTOR) (7P) (SYSTEM CONTROL 2)	
	4-941-762-11	COVER (MLY), BATTERY (FOR RM-SW55)	
*	4-979-069-01	CUSHION (STR) (FRONT)	
*	4-979-070-01	CUSHION (STR) (REAR)	
*	4-980-779-01	CARTON, INDIVIDUAL	
**********			
		********** HARDWARE LIST **********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Sony Corporation
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Home A&V Products Div.

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9-960-415-31

STR-W55

SONY

SERVICE MANUAL

AEP Model
UK Model

CORRECTION-1

Correct your service manual as shown below

– (Under line) : indicates corrected portion.

Page	Incorrect			Correct			
26	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Remark
	* 14	A-4389-334-A	POWER AMPLIFIER BOARD CC	* 14	A-4389-334-A	POWER AMPLIFIER BOARD, COMPLETE	(EXCEPT UK)
	* 14	A-4389-341-A	POWER AMPLIFIER BOAF	* 14	A-4389-341-A	POWER AMPLIFIER BOARD, COMPLETE) (UK)	

9-960-415-91

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